

Engineering Report 62293-4B

Power Quality Tests

for

Lind Electronic Design Co., Inc.

Prepared by



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Approved by



Erik J. Borgstrom, Department Manager, EMI

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Revision history

Revision	Total pages	Date	Description
--	477	October 3, 2025	Original

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1.0 Administrative data

Prepared for	Lind Electronic Design Co., Inc. 14850 Deveau Place Minnetonka, MN 55345
Attention	Thomas Martin
Test performed	Refer to Table 2-2
Test facility	Element Materials Technology 9725 Girard Avenue South Minneapolis, MN 55431
Item(s) tested	DC/DC Converter
Part number(s)	MIL 1950-5435
Serial number(s)	2135
Primary specification(s)	MIL-STD-704F
PO number	47724-0
Purchase date	9/9/2021
Element test report number	62293-4B
Project start date	10/14/2021
Project completion date	11/15/2021
Test report completion date	10/3/2025
As received	This document describes procedures and results of testing performed to the specification(s) and/or requirement(s) detailed herein. The results described in this report relate only to the specific items as received and tested.
Decision rule	Based upon the type of testing being categorized as CAT I (Quantitative or Semi-Quantitative) as defined in A2LA's P103 Policy on Estimating Measurement Uncertainty for Testing Laboratories, decision rules are not required.

2.0 Instrumentation, procedure, and results

2.1 Instrumentation

All instrumentation is calibrated regularly by instruments directly traceable to the National Institute of Standards and Technology, and in accordance with *ANSI/NCSL Z540.1*, *ANSI/NCSL Z540.3-2006*, and *ISO/IEC 17025: 2017*.

Table 2-1: Instrumentation list

Equipment Number	Description	Manufacturer	Model Number	Last Calibration	Due Calibration	Range
210-059	Digital Multimeter	Fluke	189	2/22/2021	2/22/2023	50 Vdc; 500Ω; 400 mA
210-530	Multimeter	Agilent	34401A	9/17/2020	3/17/2022	0 to 750 Vac; 0 to 1000 Vdc
230-105	Current Probe	Pearson	101	8/10/2021	8/10/2023	1 Hz to 1 MHz
230-121	Current Probe	Yokogawa	701933	8/5/2021	8/5/2022	dc to 500 MHz
230-123	Differential Probe	Yokogawa	701926	11/16/2020	11/16/2022	dc to 50 MHz
230-124	Current Probe	Yokogawa	701931	2/5/2021	2/5/2022	dc to 2 MHz
230-130	Differential Probe	Yokogawa	700925	8/3/2021	8/3/2022	dc to 15 MHz
230-131	Differential Probe	Yokogawa	700925	8/30/2021	8/30/2022	dc to 15 MHz
300-034	Digital Oscilloscope	Yokogawa	SB5310	5/11/2021	5/11/2022	dc to 1 GHz
300-037	Digital Oscilloscope	Yokogawa	DLM4058	7/29/2021	7/29/2022	dc to 500 MHz
310-048	Arbitrary Waveform Generator	Tektronix	AWG2021	N/A	N/A	dc to 2 MHz
310-078	Arbitrary Waveform Generator	Agilent	33220A	5/11/2021	5/11/2022	dc to 20 MHz
350-153	Audio Power Amplifier	Techron	7782	N/A	N/A	dc to 100 kHz
350-176	Audio Power Amplifier	AE Techron	7224	N/A	N/A	dc to 300 kHz
360-062	Spectrum Analyzer	Agilent	E4440A	8/12/2021	8/12/2022	3 Hz to 26.5 GHz
380-549	DC Power Supply	Sorensen	DCS 40-25M37	N/A	N/A	0 to 40 Vdc; 0 to 25A
380-552	DC Power Supply	Sorensen	DCS 40-25M37	N/A	N/A	0 to 40 Vdc; 0 to 25A
400-060	Stopwatch	Extech	365510	11/3/2020	11/3/2022	24 hrs
450-033	Audio Transformer	Solar Electronics	6220-1A	N/A	N/A	30 Hz to 250 kHz

2.2 Procedure

Support equipment was connected and proper operation was verified in accordance MIL-STD-704F and customer instructions.

The test unit was operated and monitored by Element personnel during testing.

2.3 Results

Upon completion of testing, the test unit was found to be compliant with the requirements specified for MIL-STD-704F LDC102, LDC103, LDC104, LDC105, LDC501, LDC602, and the customer is to determine the results for LDC101, LDC201, LDC302, and LDC601. Refer to Table 2-2 for a summary of results. Refer to each appendix for data, figures, and photographs.

The test unit was returned to Lind Electronic Design Co., Inc.

Table 2-2: Summary of results

Appendix	Description	Result
Appendix A	LDC101 Load Measurements	Customer to determine (CTD)
Appendix B	LDC102, LDC301, and LDC401, Steady State Limits for Voltage	Pass
Appendix C	LDC103 Voltage Distortion Spectrum	Pass
Appendix D	LDC104 Total Ripple	Pass
Appendix E	LDC105 Normal Voltage Transients	Pass
Appendix F	LDC201 Power Interrupt	CTD
Appendix G	LDC302 Abnormal Voltage Transients	CTD
Appendix H	LDC501 Starting Voltage Transients	Pass
Appendix I	LDC601 Power Failure	CTD
Appendix J	LDC602 Phase Reversal	Pass

Appendix A: LDC101 Load Measurements



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
230-121	Current probe	X	300-037	Oscilloscope	X	
230-130	Differential probe	X	230-123	Differential probe	X	
210-059	Multimeter	X	380-549	DC power supply	N/A	
360-062	Spectrum analyzer	X	230-105	Current probe	X	
230-131	Differential probe	X	380-552	DC power supply	N/A	

LDC101 Normal Operation, Load Measurements for Voltage Test results						CTD = customer to determine
Test	EUT mode	Nominal voltage	Measurement	Result	Notes	
Inrush Current	Powered	28 Vdc	7.6 A	CTD	Figure A-1	
Current Distortion Factor	Powered	28 Vdc	0.67 %	CTD	Figure A-2	
Current Spectrum	Powered	28 Vdc	30 Hz to 10 kHz	CTD	Figure A-3, ambient test to resistive load	
Current Spectrum	Powered	28 Vdc	30 Hz to 10 kHz	CTD	Figure A-4	
Load (VA)	Powered	28 Vdc	121.24 VA	CTD	Figure A-5	



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

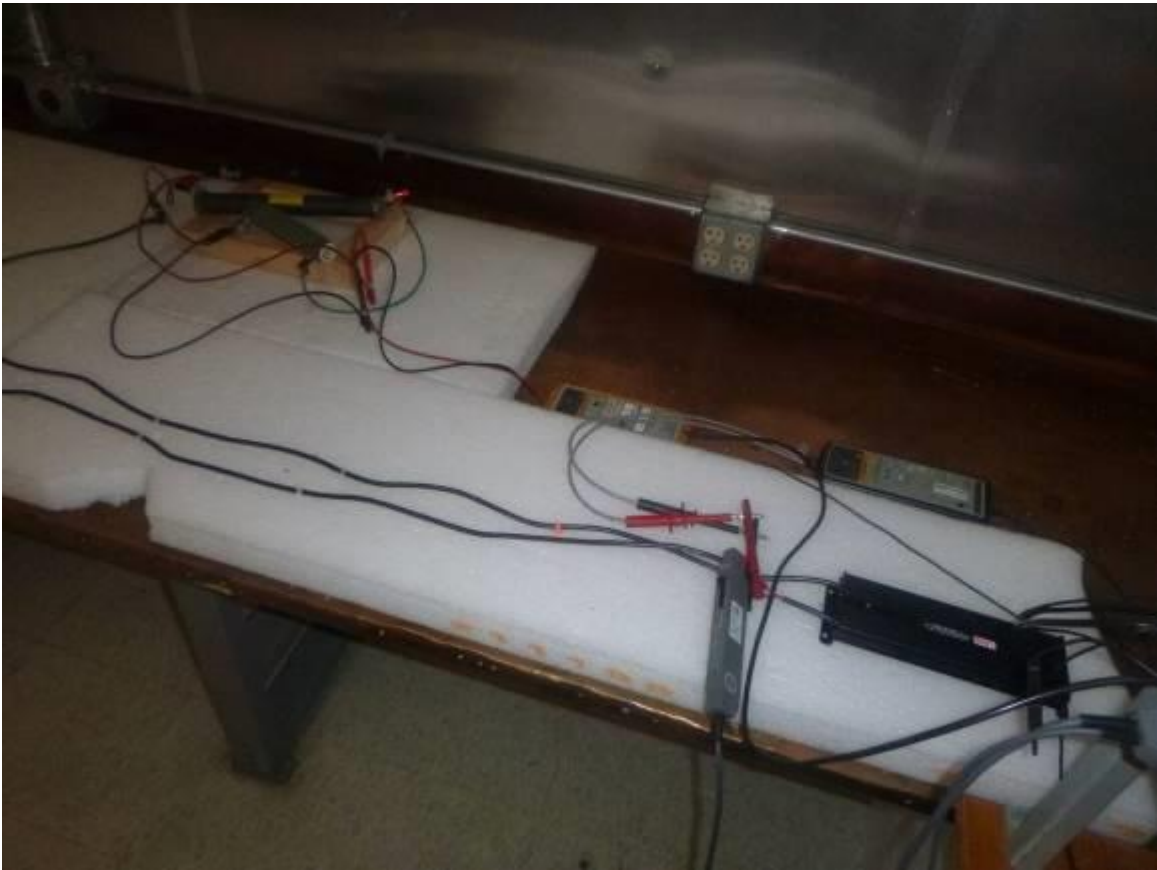


Photograph A-1: EUT identification



Data sheet
LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

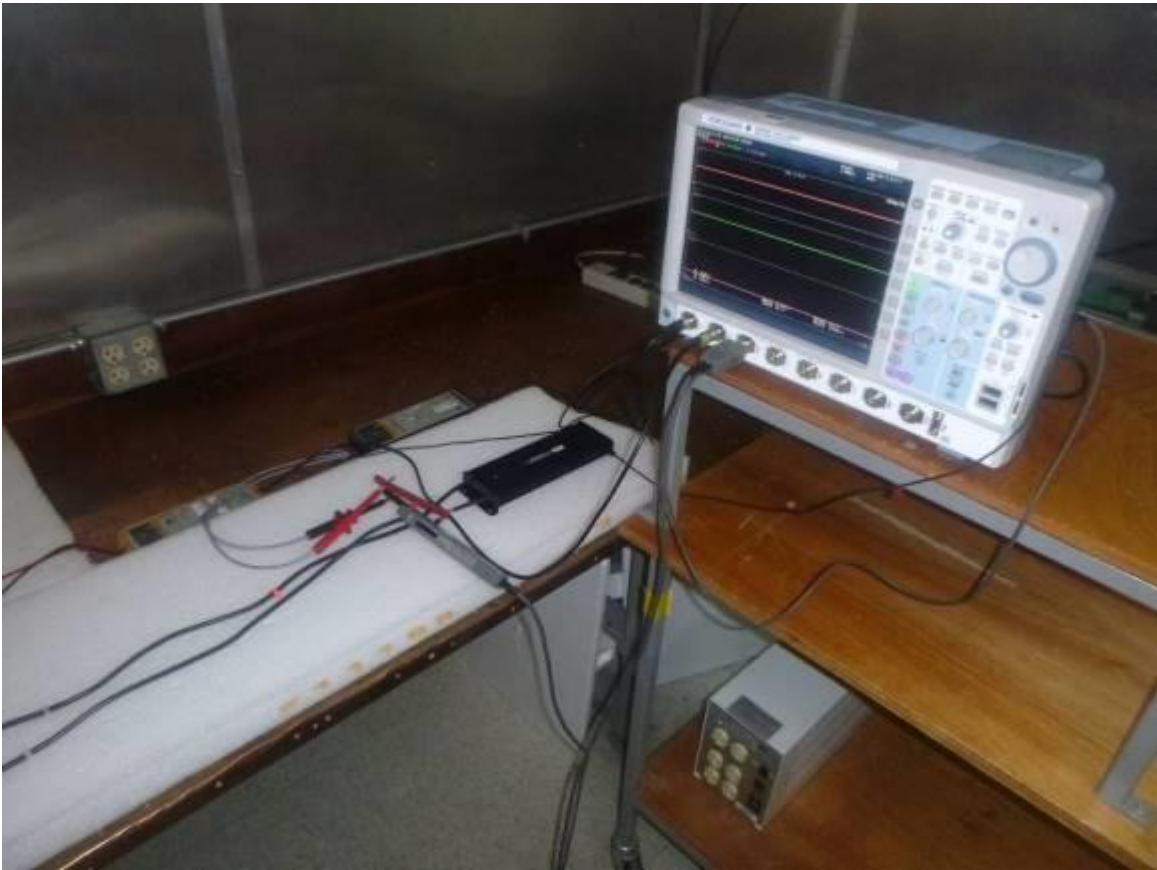


Photograph A-2: Test setup



Data sheet
LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2



Photograph A-3: Test setup



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2



Photograph A-4: Current Spectrum Test setup



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

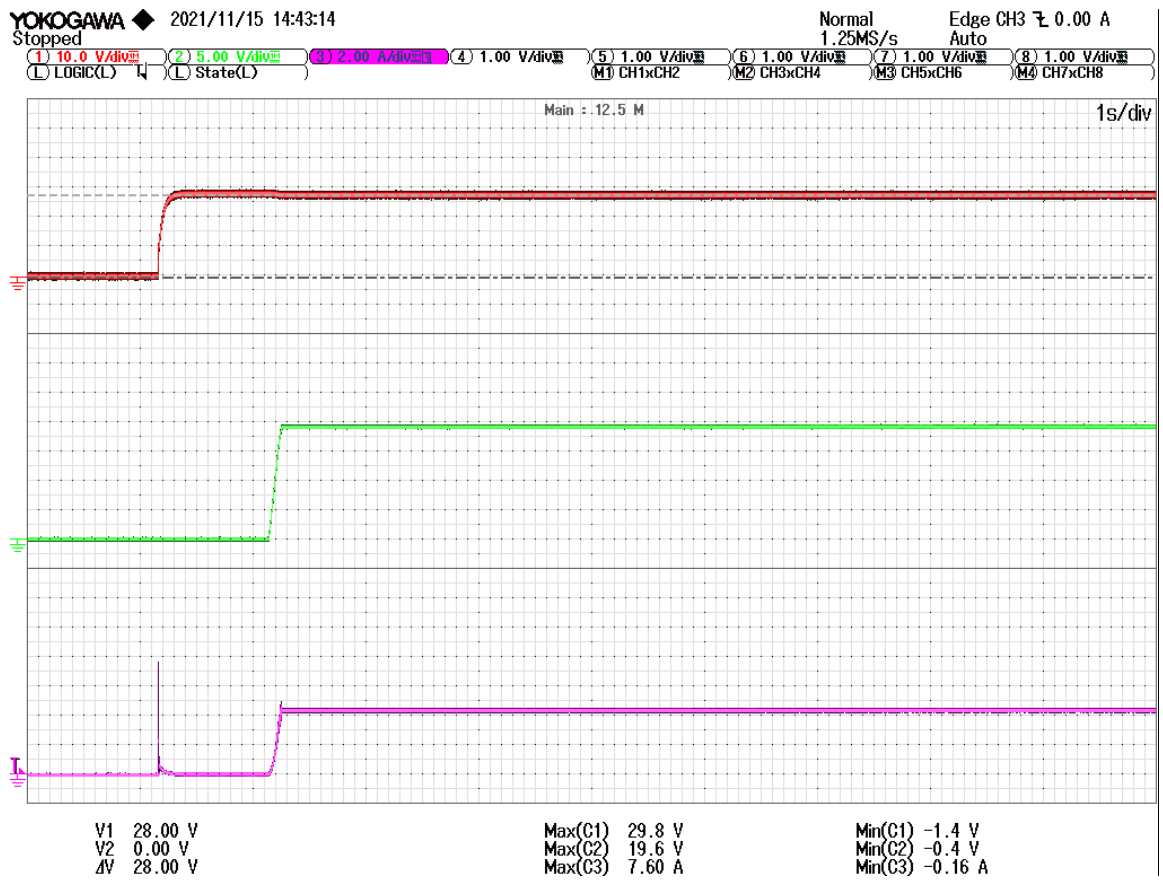


Figure A-1: Inrush Current

Channel 1 = input voltage, channel 2 = output voltage, channel 3 = input current



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

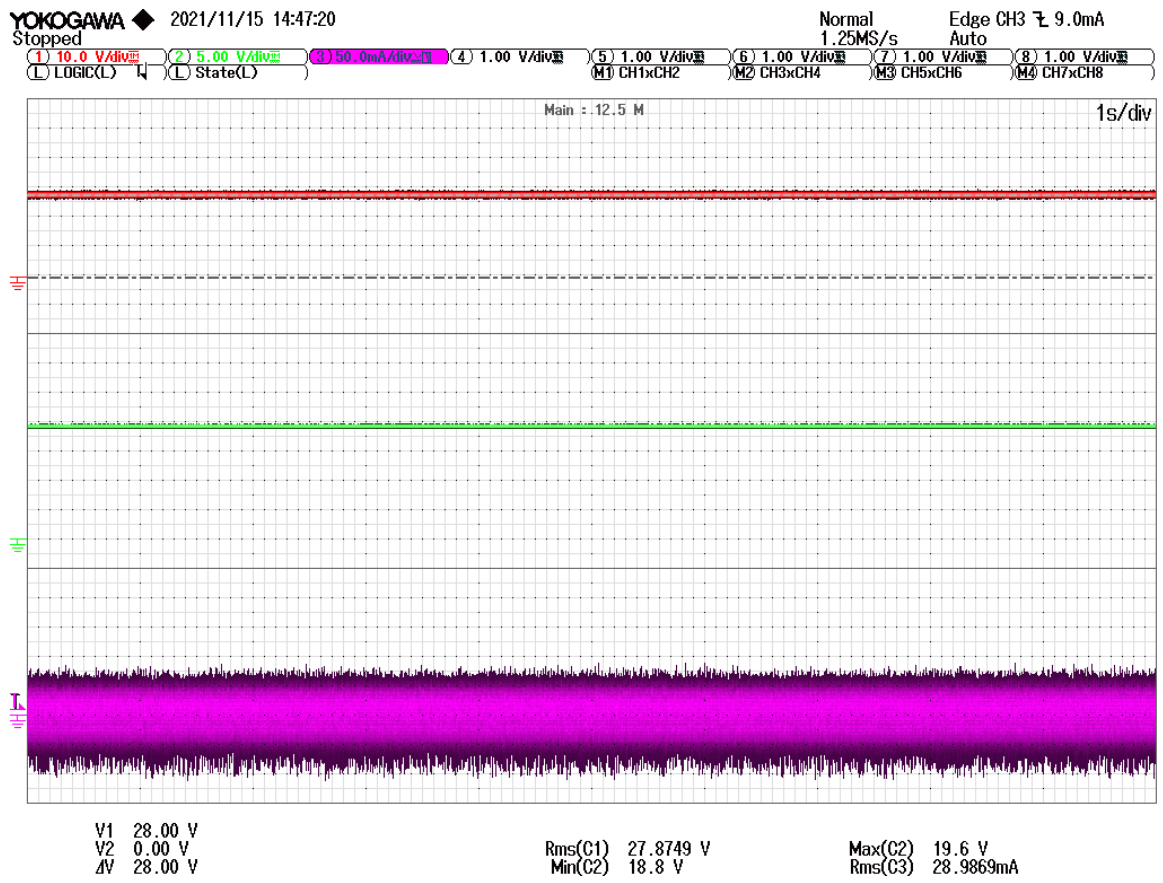


Figure A-2: Current Distortion Factor

Channel 1 = input voltage, channel 2 = output voltage, channel 3 = input current (AC coupled)

Distortion factor calculation = AC ripple (0.029 Arms)/dc steady state (4.33 Arms) = 0.67%



Data sheet
LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

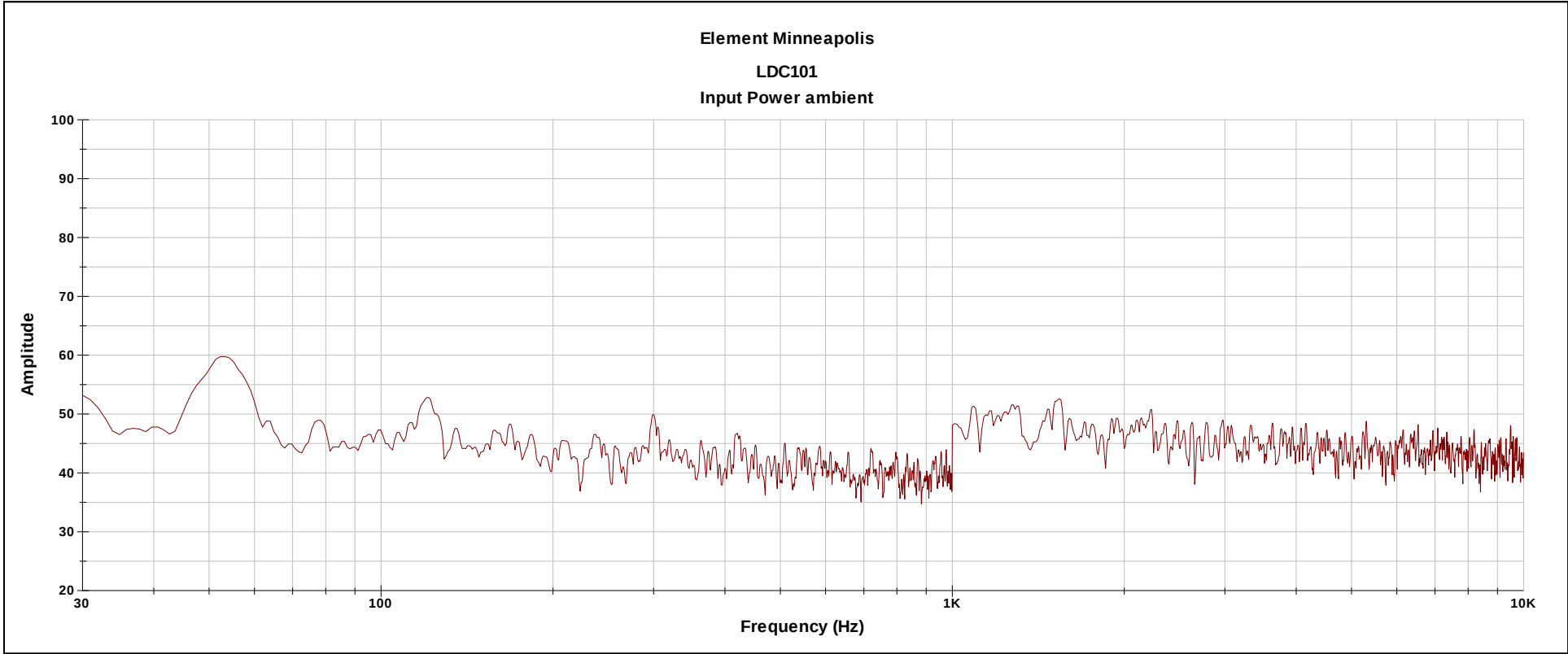


Figure A-3: Current Spectrum, 30 Hz to 10 kHz, ambient

Red trace = Ambient current spectrum data (dBμA), corrected for current probe factor



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

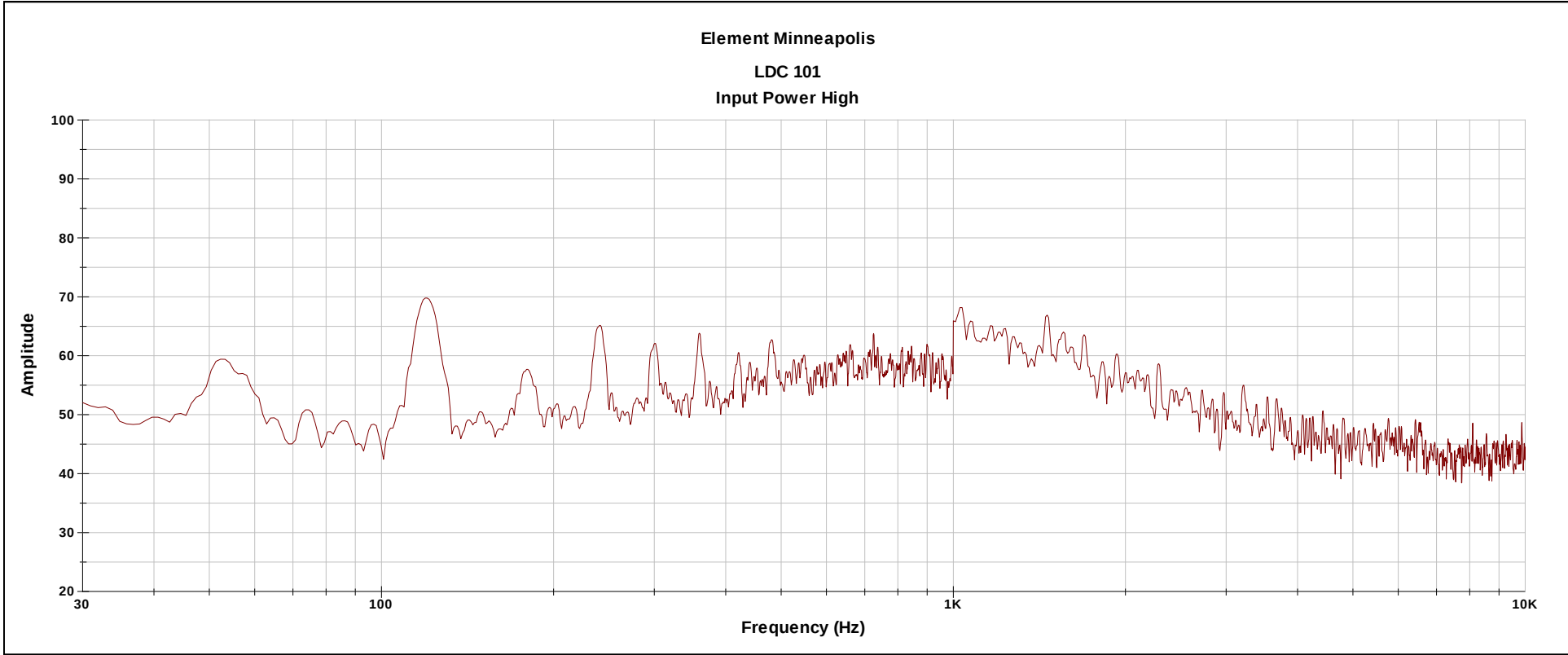


Figure A-4: Current spectrum, 30 Hz to 10 kHz

Red trace = EUT current spectrum data (dBμA), corrected for current probe factor



Data sheet

LDC101 Normal Operation, Loading Measurements for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC101		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/15/2021	Location	Groundplane G2

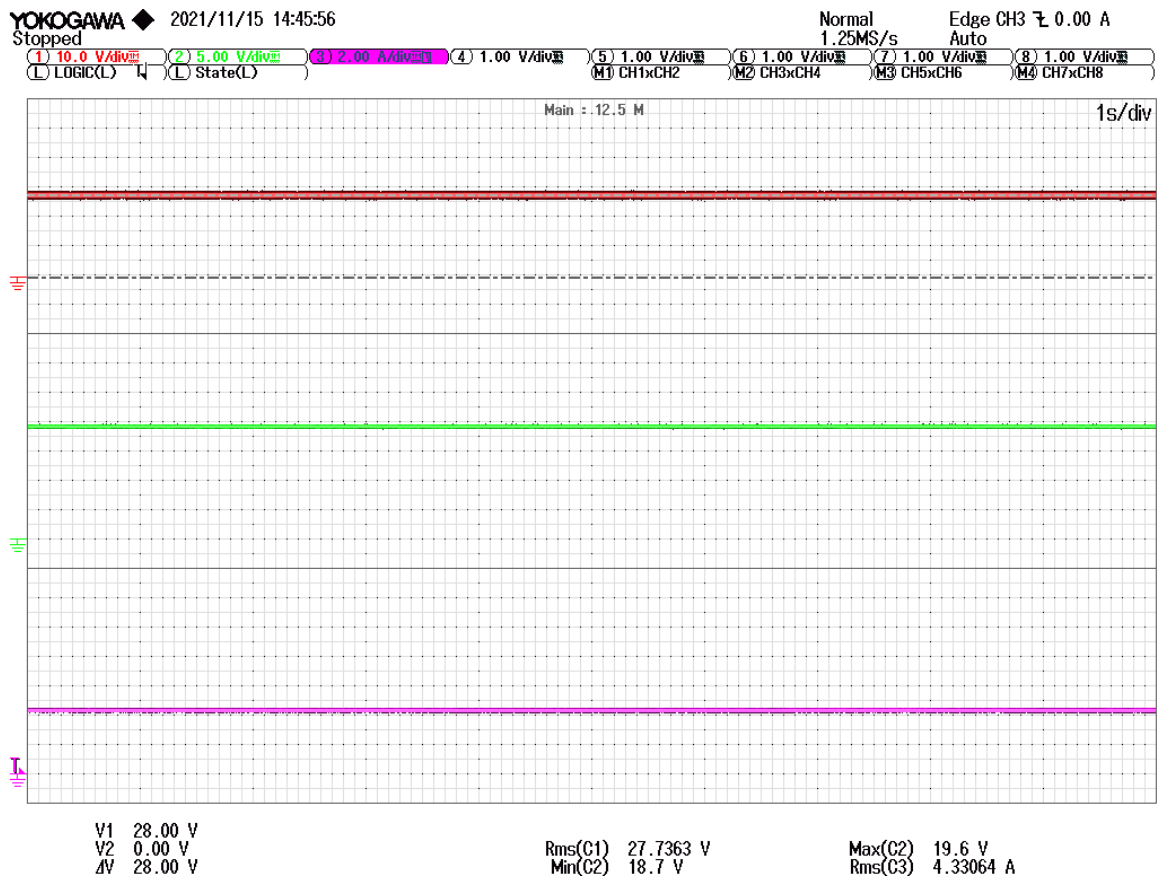


Figure A-5: RMS values of voltage and current

Channel 1 = input voltage, channel 2 = output voltage, channel 3 = input current (DC coupled)

Appendix B: LDC102, LDC301, and LDC401, Steady State Limits for Voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
400-060	Stopwatch	X	380-549	DC power supply	N/A	
210-059	Multimeter	X	300-037	Oscilloscope	X	
230-123	Differential probe	X	230-130	Differential probe	X	

Power Input DC LDC102, LDC301, and LDC401 Steady State Limits for Voltage Test results						
Test name	Nominal voltage	Frequency	Interval	EUT mode	Result	Notes
LDC 102, Normal Operation, Steady State Voltage	28 Vdc	N/A	30 min	Powered	Pass	Figure B-1
LDC 102, Normal Operation, Steady State Voltage	22 Vdc	N/A	30 min	Powered	Pass	Figure B-2
LDC 102, Normal Operation, Steady State Voltage	29 Vdc	N/A	30 min	Powered	Pass	Figure B-3
LDC301 Abnormal Operation, Steady State Voltage	28 Vdc	N/A	30 min	Powered	Pass	Figure B-4
LDC301 Abnormal Operation, Steady State Voltage	20 Vdc	N/A	30 min	Powered	Pass	Figure B-5
LDC301 Abnormal Operation, Steady State Voltage	31.5 Vdc	N/A	30 min	Powered	Pass	Figure B-6
LDC401 Emergency Operation, Steady State Voltage	28 Vdc	N/A	30 min	Powered	Pass	Figure B-7
LDC401 Emergency Operation, Steady State Voltage	18 Vdc	N/A	30 min	Powered	Pass	Figure B-8
LDC401 Emergency Operation, Steady State Voltage	29 Vdc	N/A	30 min	Powered	Pass	Figure B-9



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2



Photograph B-1: EUT identification



Data sheet
LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2



Photograph B-2: Test setup, typical



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

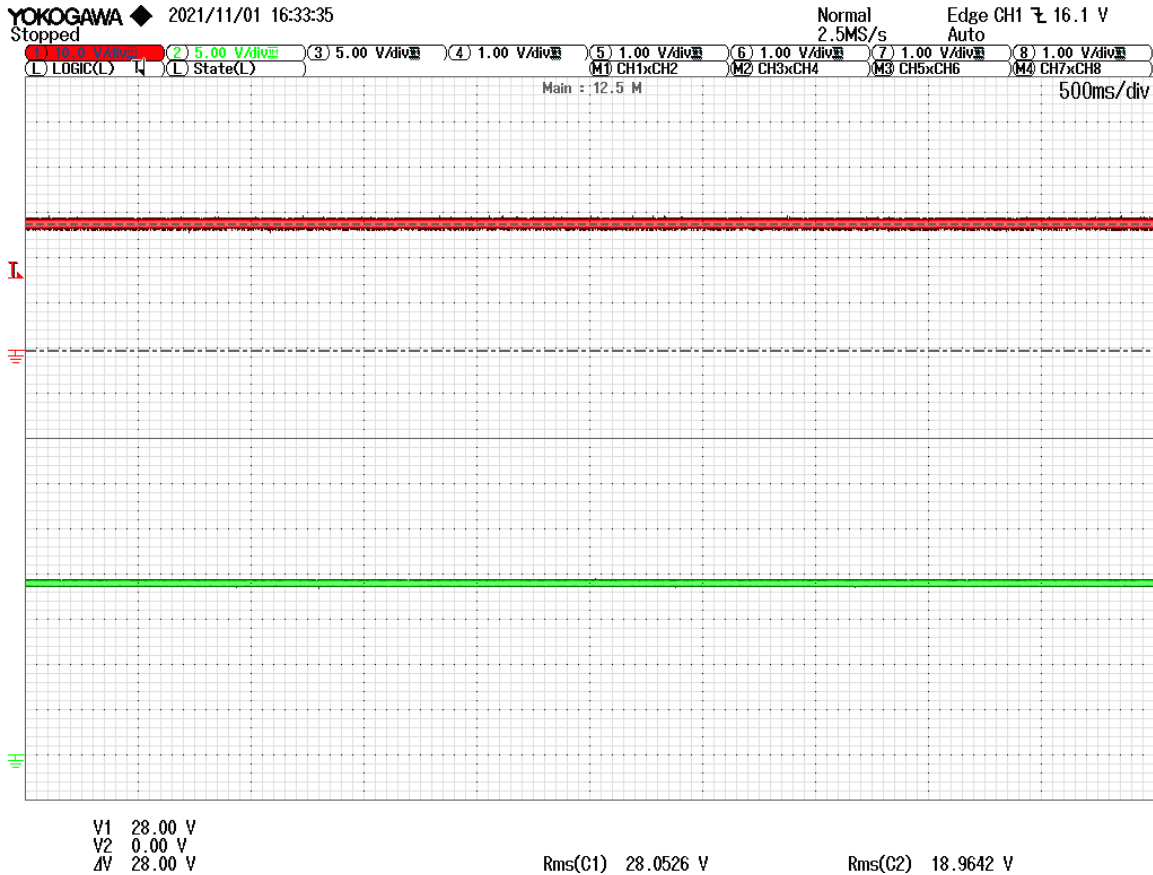


Figure B-1: LDC102, 28 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

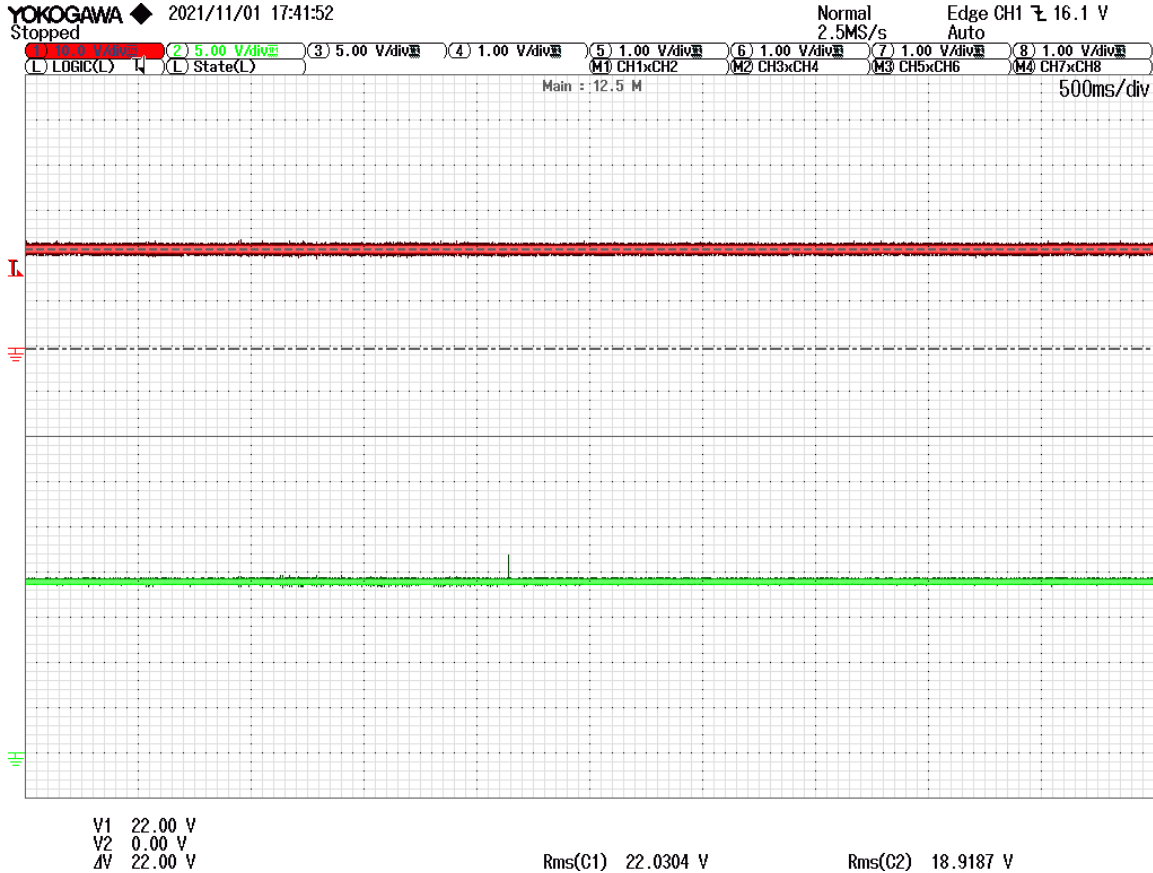


Figure B-2: LDC102, 22 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

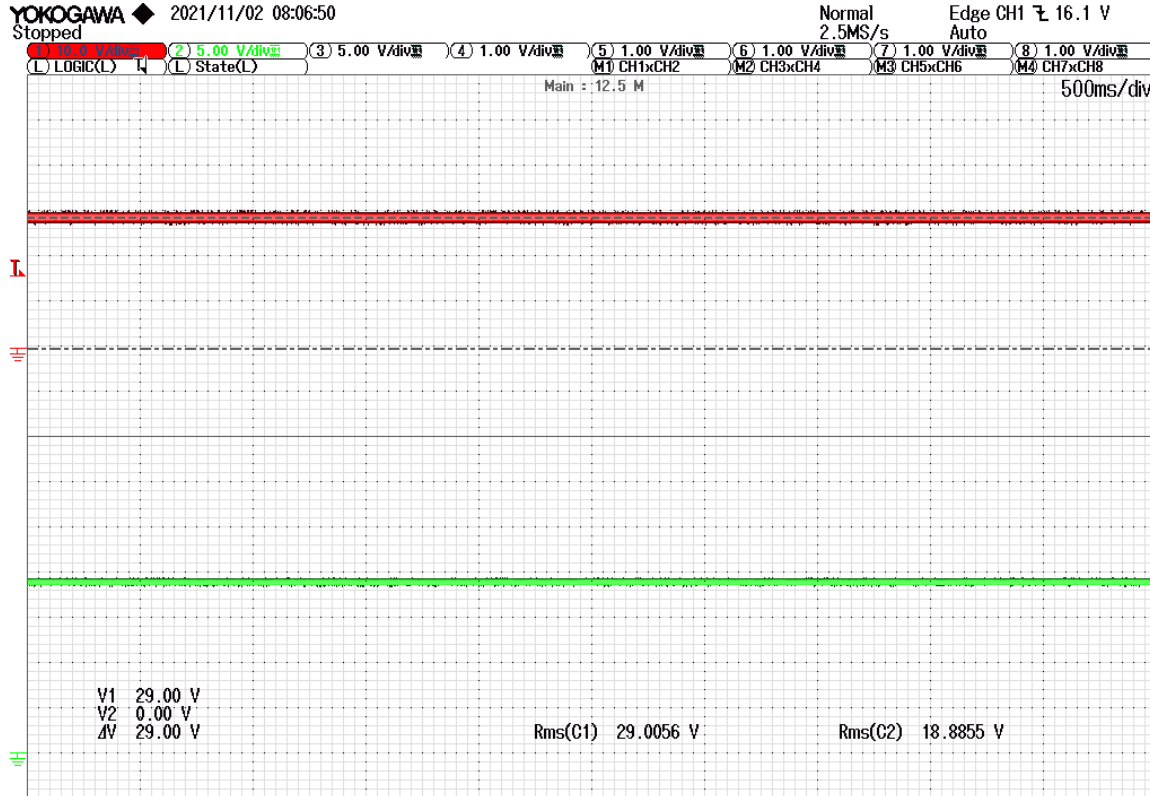


Figure B-3: LDC102, 29 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2



Figure B-4: LDC301, 28 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

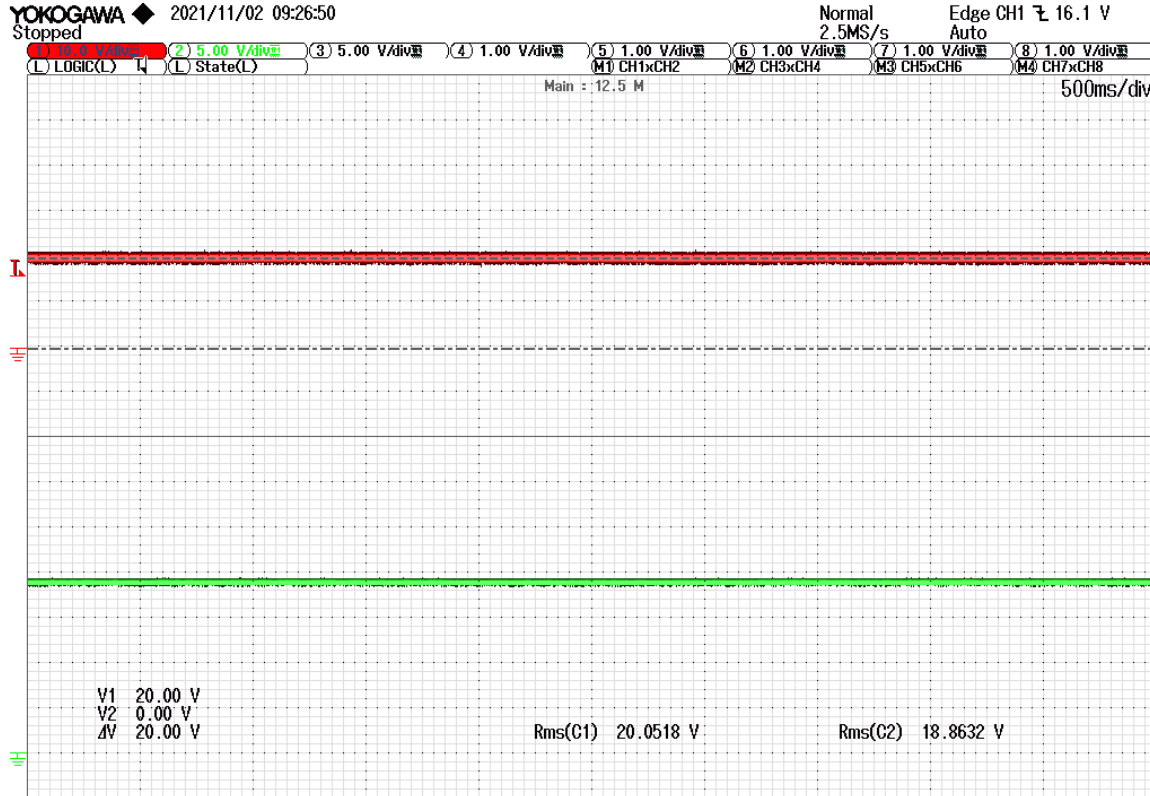


Figure B-5: LDC301, 20 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

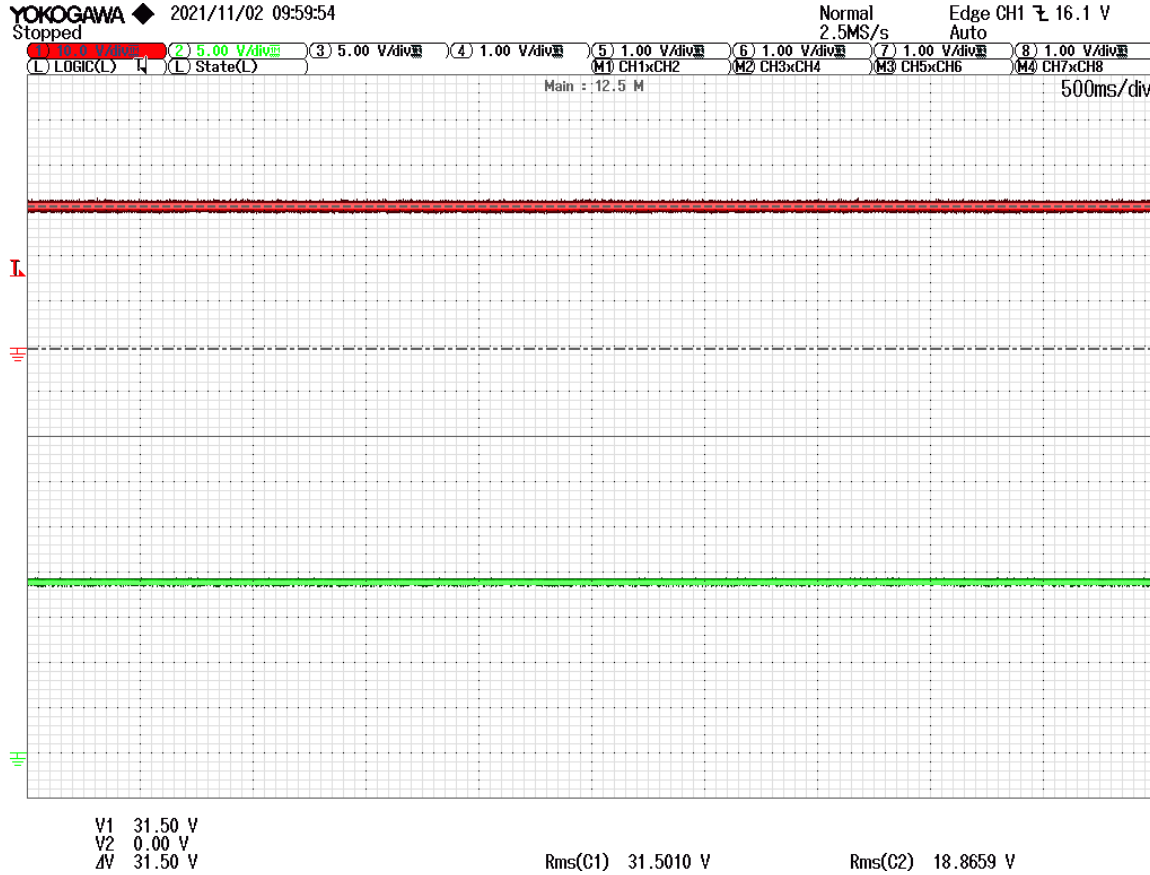


Figure B-6: LDC301, NHSS, 31.5 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

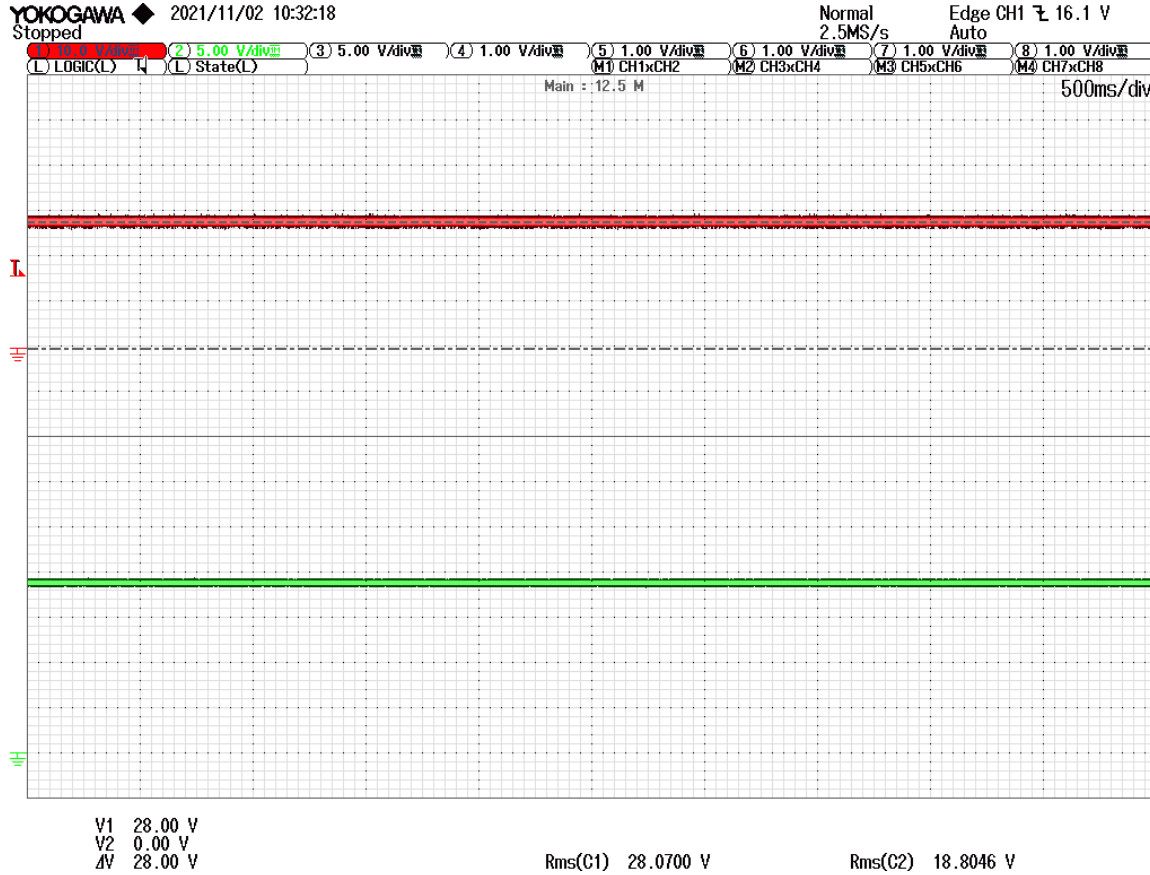


Figure B-7: LDC401, 28 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

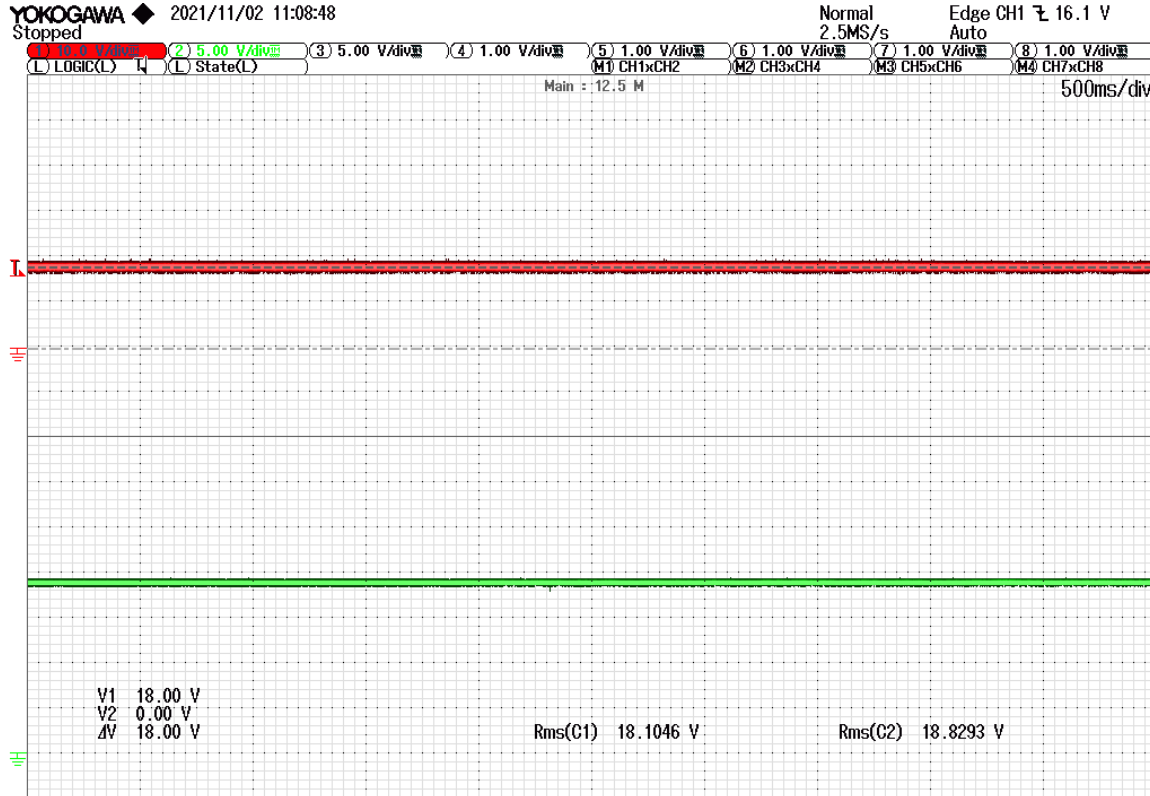


Figure B-8: LDC401, 18 Vdc

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC102, LDC301, and LDC401 Steady State Limits for Voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC102, LDC301, and LDC401		
DUT description	DC/DC Converter	Test date(s)	10/14/2021 to 11/2/2021	Location	Groundplane G2

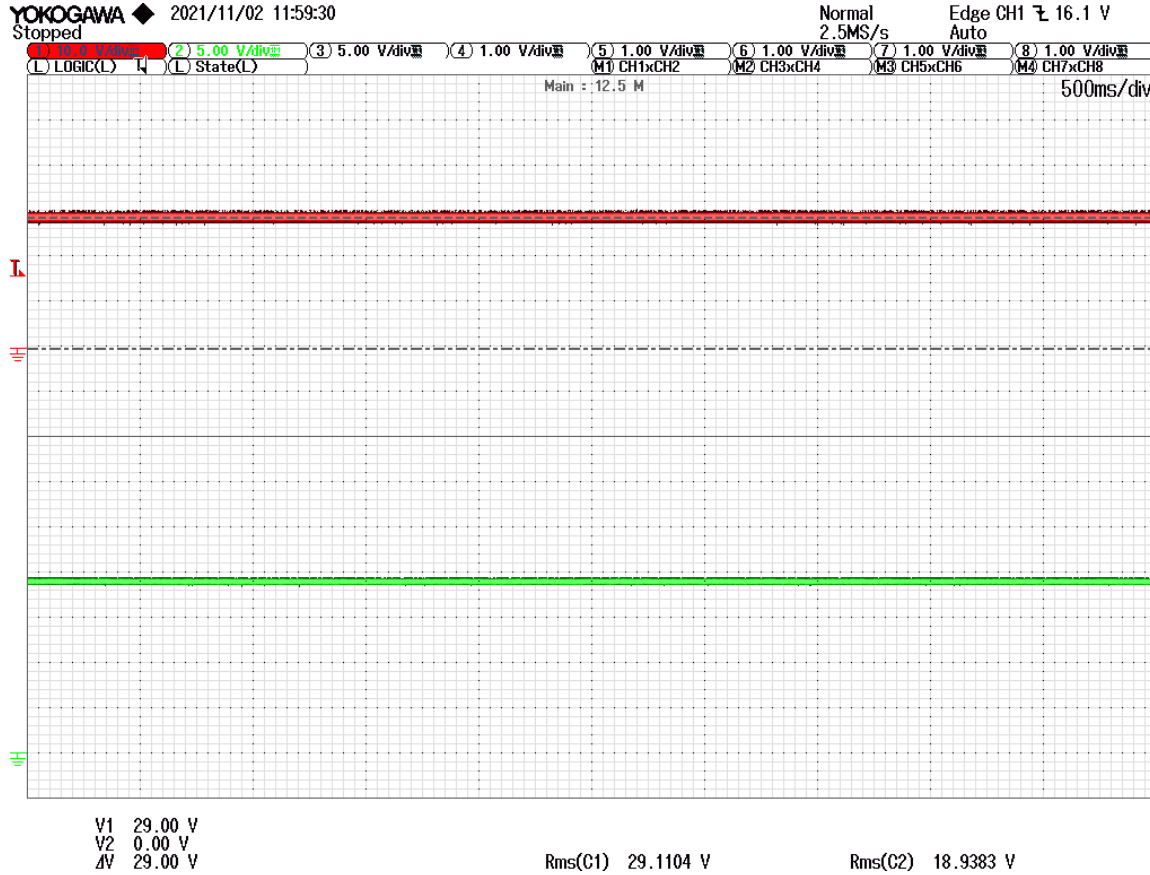


Figure B-9: LDC401, 29 Vdc

Channel 1 = input voltage, channel 2 = output voltage

Appendix C: LDC103 Voltage Distortion Spectrum



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-176	Amplifier	N/A	230-130	Differential probe	X	
300-037	Oscilloscope	X	230-124	Current probe	X	
230-123	Differential probe	X	380-549	DC power supply	N/A	
210-059	Multimeter	X	310-078	Arbitrary waveform generator	X	
450-033	Transformer	N/A	400-060	Stopwatch	X	

LDC103 Voltage Distortion Spectrum Test results						
Condition	EUT mode	Nominal voltage	Frequency	Interval	Result	Notes
Condition A	Powered	28 Vdc	10 Hz	5 min	Pass	Figure C-1
Condition B	Powered	28 Vdc	25 Hz	5 min	Pass	Figure C-2
Condition C	N/A	28 Vdc	50 Hz	N/A	N/A	Figure C-3, calibration
Condition C	Powered	28 Vdc	50 Hz	5 min	Pass	Figure C-4
Condition D	N/A	28 Vdc	60 Hz	N/A	N/A	Figure C-5, calibration
Condition D	Powered	28 Vdc	60 Hz	5 min	Pass	Figure C-6
Condition E	N/A	28 Vdc	250 Hz	N/A	N/A	Figure C-7, calibration
Condition E	Powered	28 Vdc	250 Hz	5 min	Pass	Figure C-8
Condition F	N/A	28 Vdc	1 kHz	N/A	N/A	Figure C-9, calibration
Condition F	Powered	28 Vdc	1 kHz	5 min	Pass	Figure C-10
Condition G	N/A	28 Vdc	1.7 kHz	N/A	N/A	Figure C-11, calibration
Condition G	Powered	28 Vdc	1.7 kHz	5 min	Pass	Figure C-12
Condition H	N/A	28 Vdc	2 kHz	N/A	N/A	Figure C-13, calibration
Condition H	Powered	28 Vdc	2 kHz	5 min	Pass	Figure C-14
Condition I	N/A	28 Vdc	5 kHz	N/A	N/A	Figure C-15, calibration
Condition I	Powered	28 Vdc	5 kHz	5 min	Pass	Figure C-16
Condition J	N/A	28 Vdc	6.5 kHz	N/A	N/A	Figure C-17, calibration
Condition J	Powered	28 Vdc	6.5 kHz	5 min	Pass	Figure C-18
Condition K	N/A	28 Vdc	10 kHz	N/A	N/A	Figure C-19, calibration
Condition K	Powered	28 Vdc	10 kHz	5 min	Pass	Figure C-20



Data sheet LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

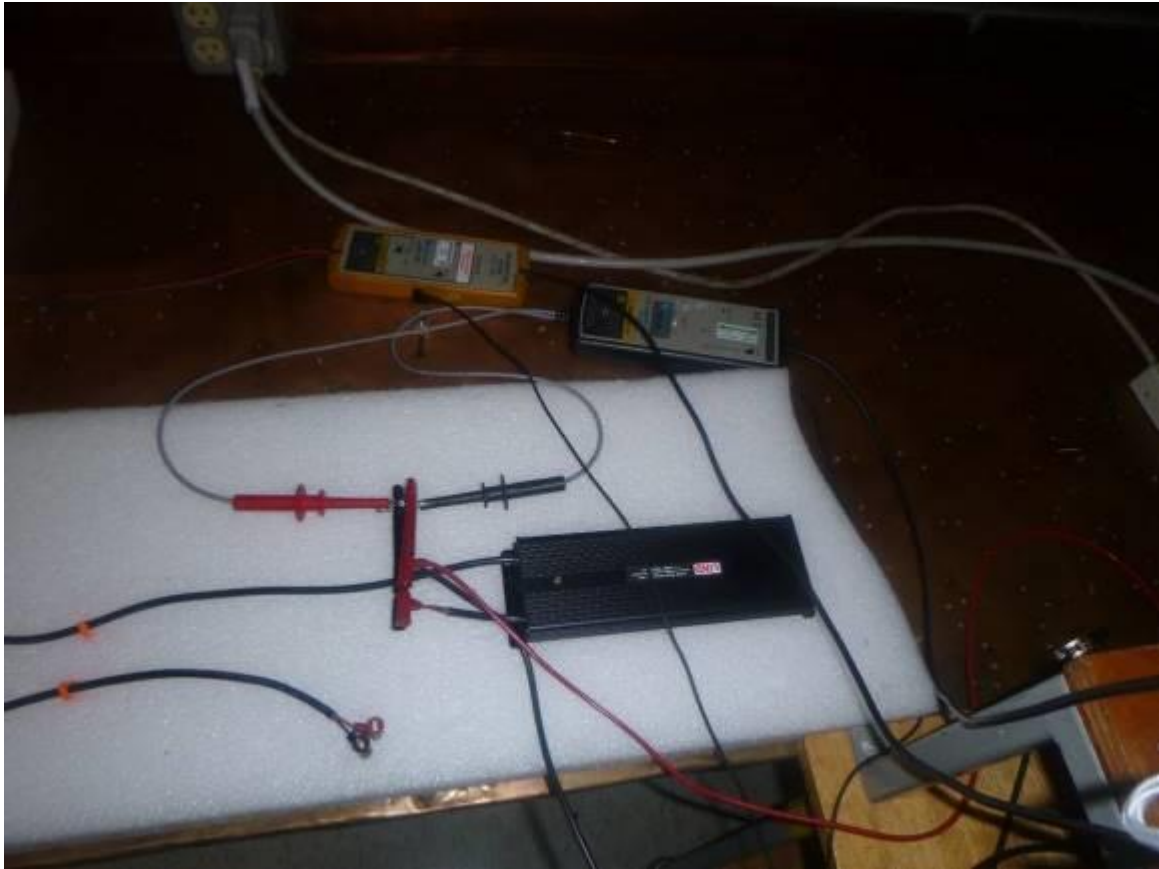


Photograph C-1: EUT identification



Data sheet
LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2



Photograph C-2: Test setup, 10 Hz and 25 Hz



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2



Photograph C-3: Test setup, 50 Hz to 10 kHz



Data sheet LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2



Photograph C-4: 50 Hz to 10 kHz, calibration setup, representative



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

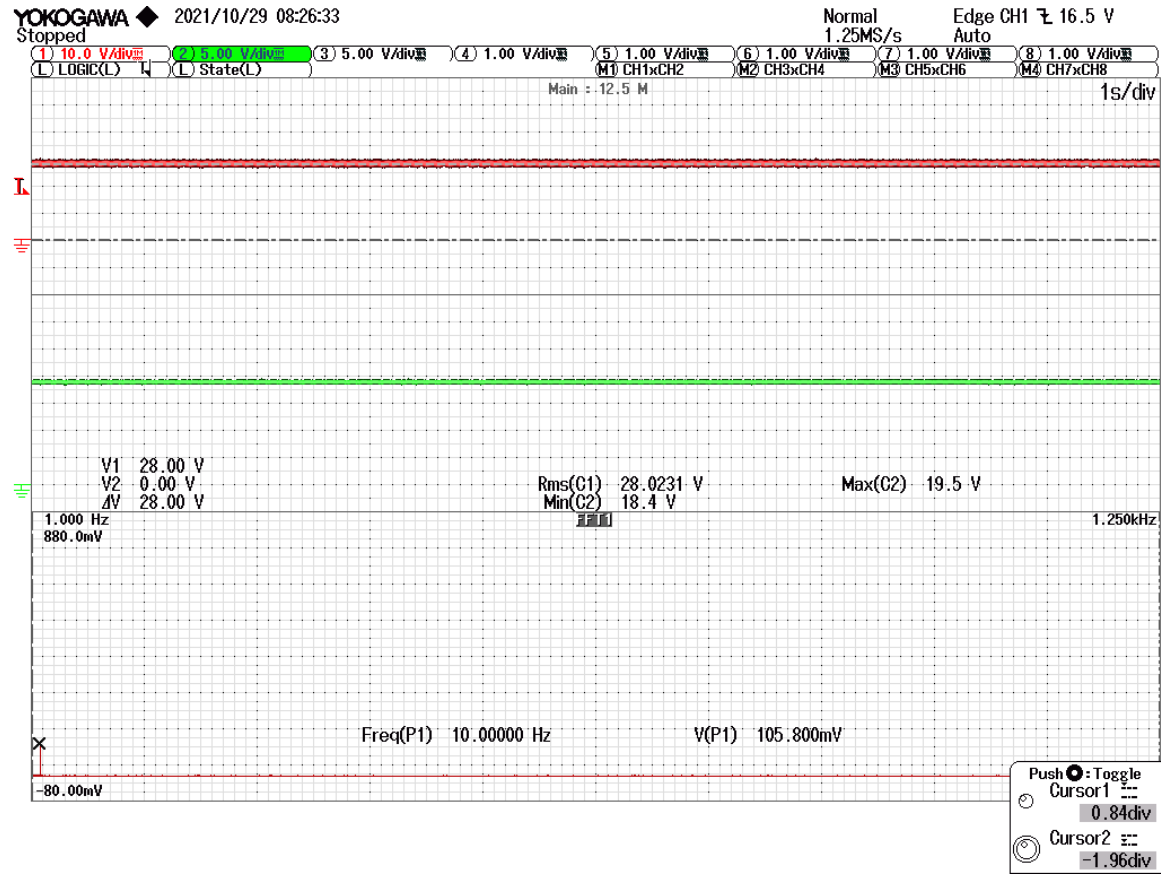


Figure C-1: Condition A, 10 Hz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

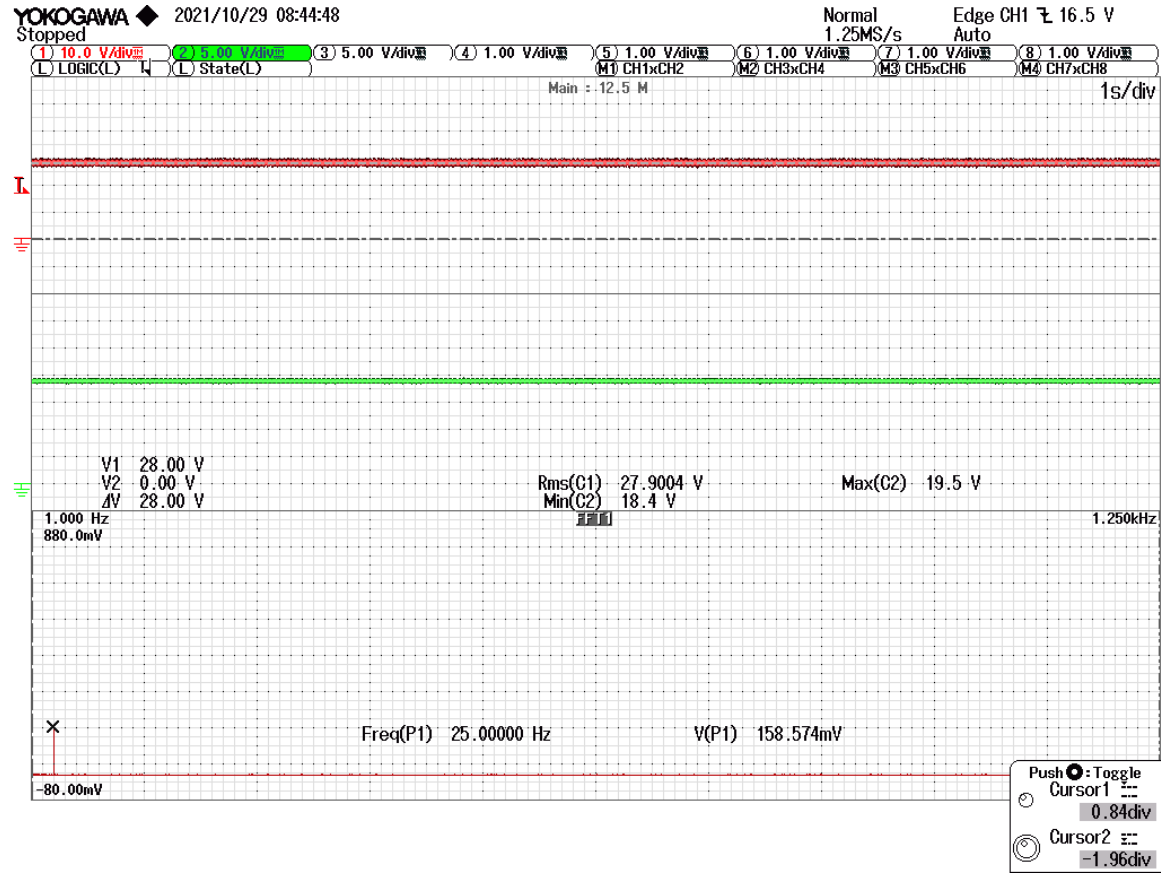


Figure C-2: Condition B, 25 Hz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

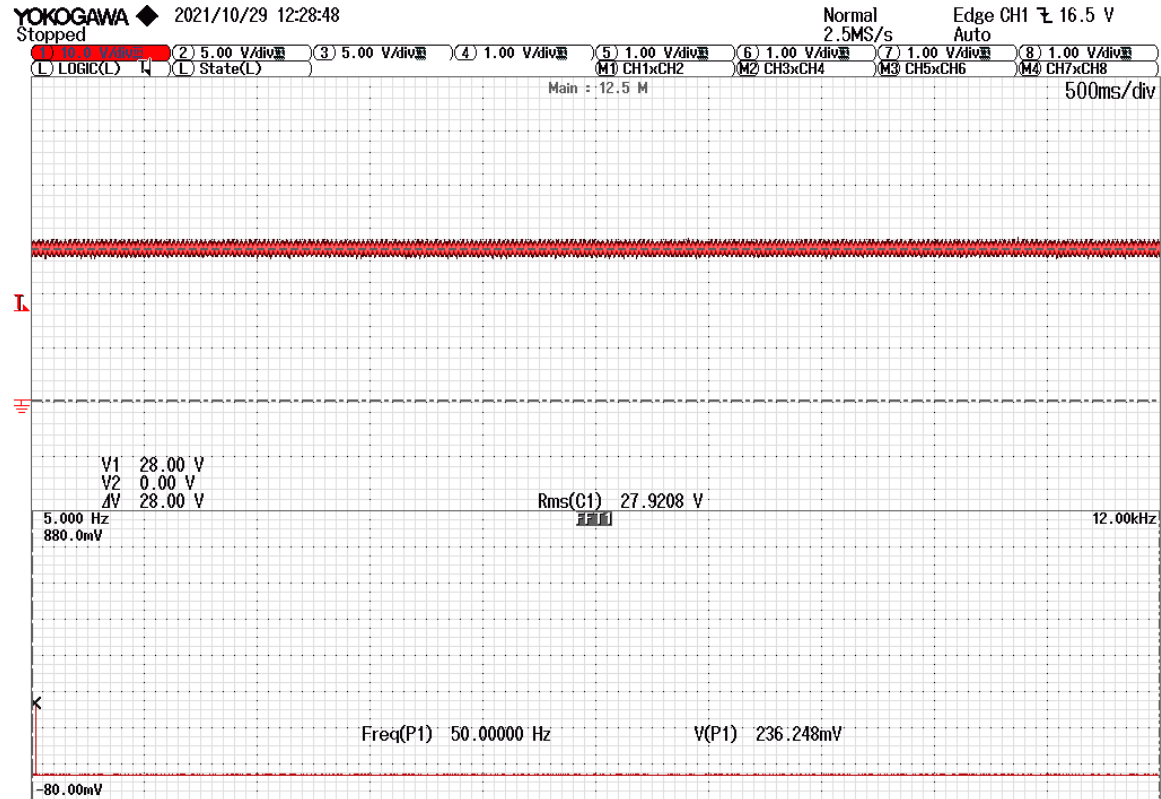


Figure C-3: Condition C, calibration, 50 Hz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

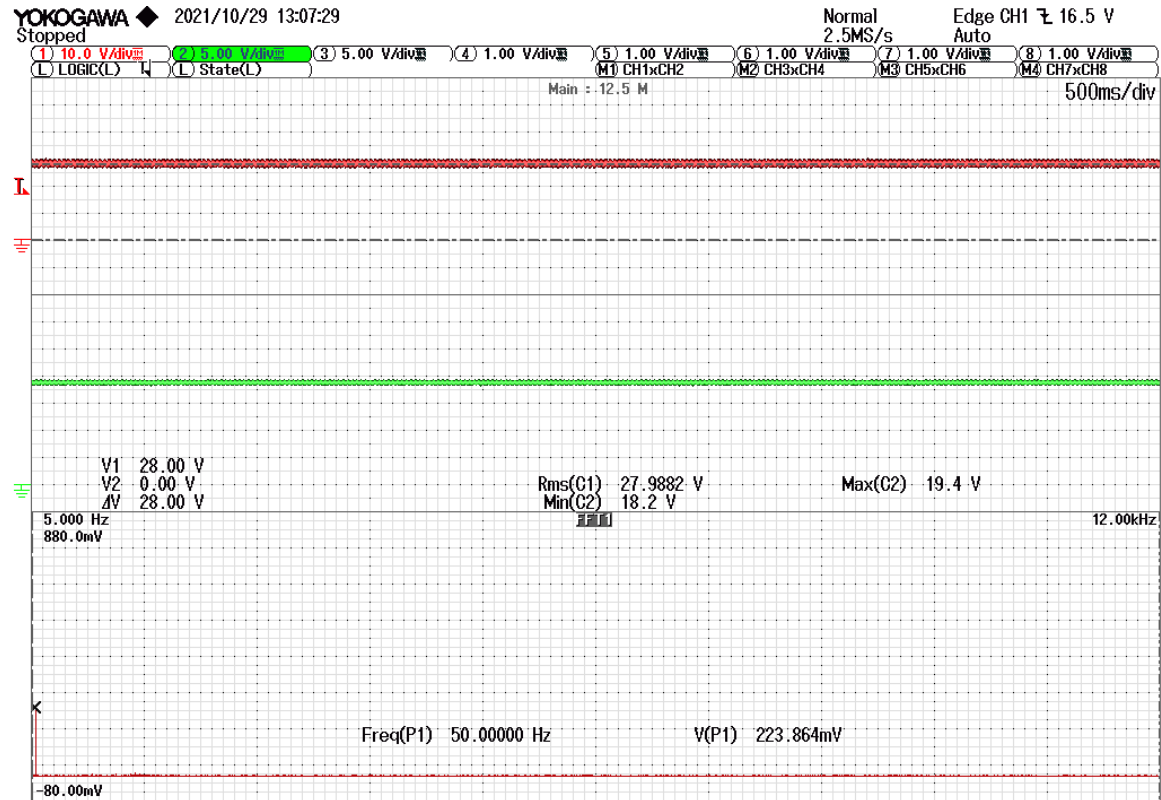


Figure C-4: Condition C, 50 Hz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

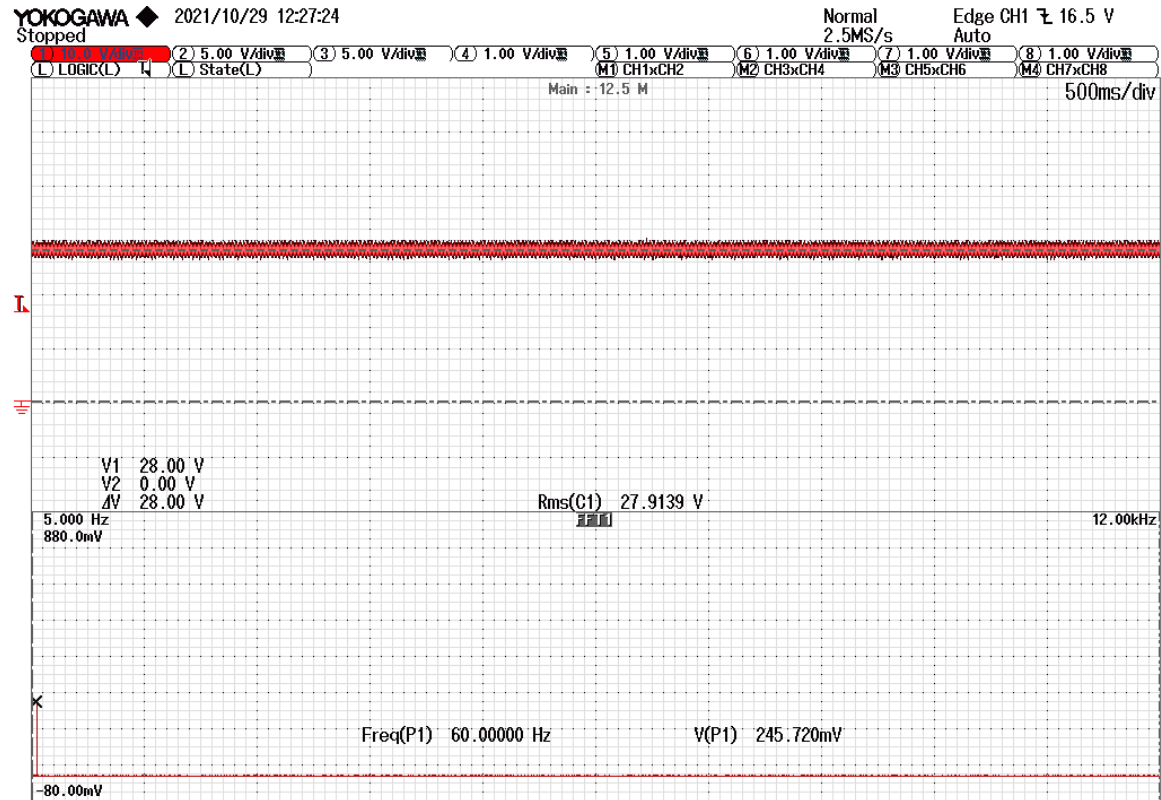


Figure C-5: Condition D, calibration, 60 Hz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2



Figure C-6: Condition D, 60 Hz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

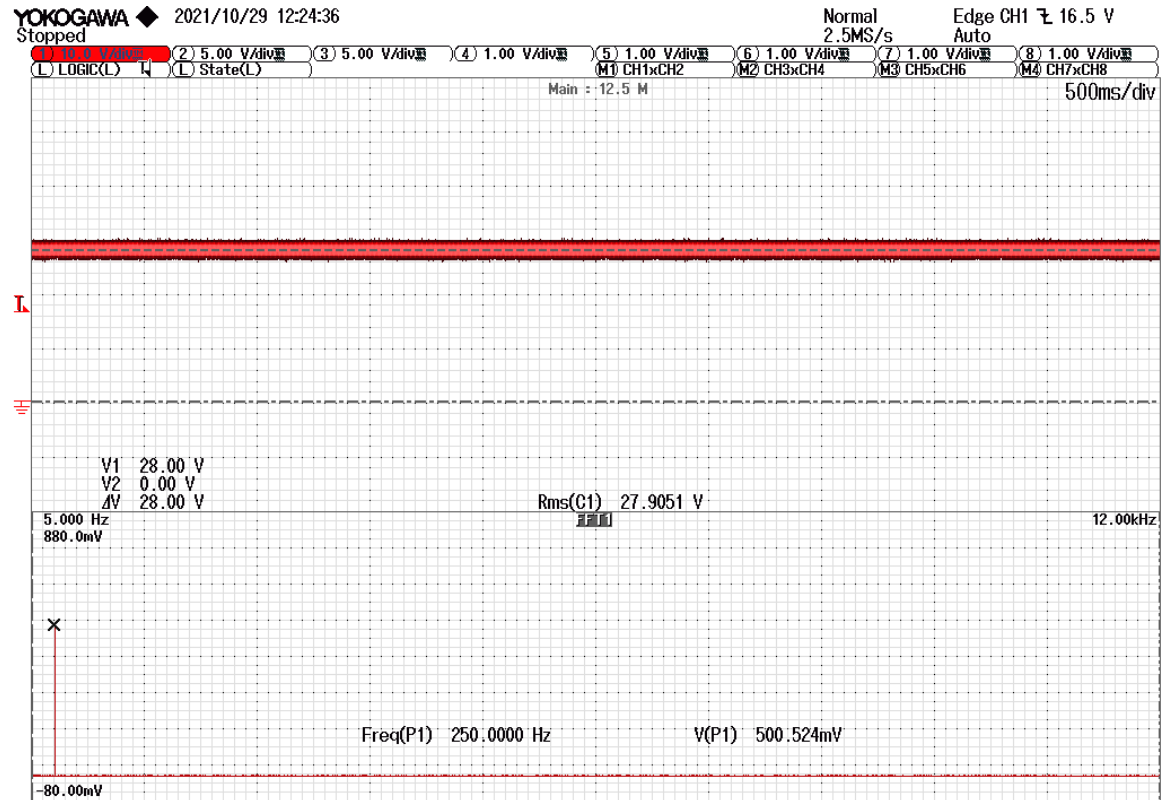


Figure C-7: Condition E, calibration, 250 Hz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

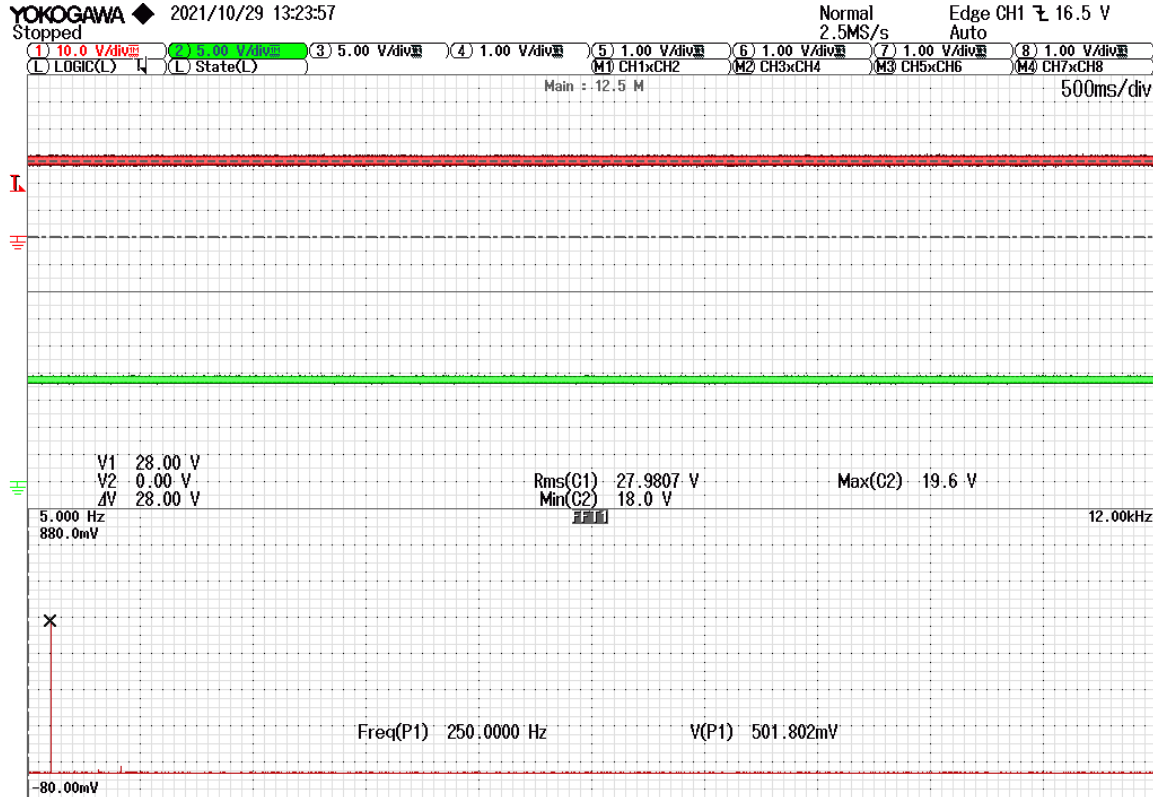


Figure C-8: Condition E, 250 Hz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

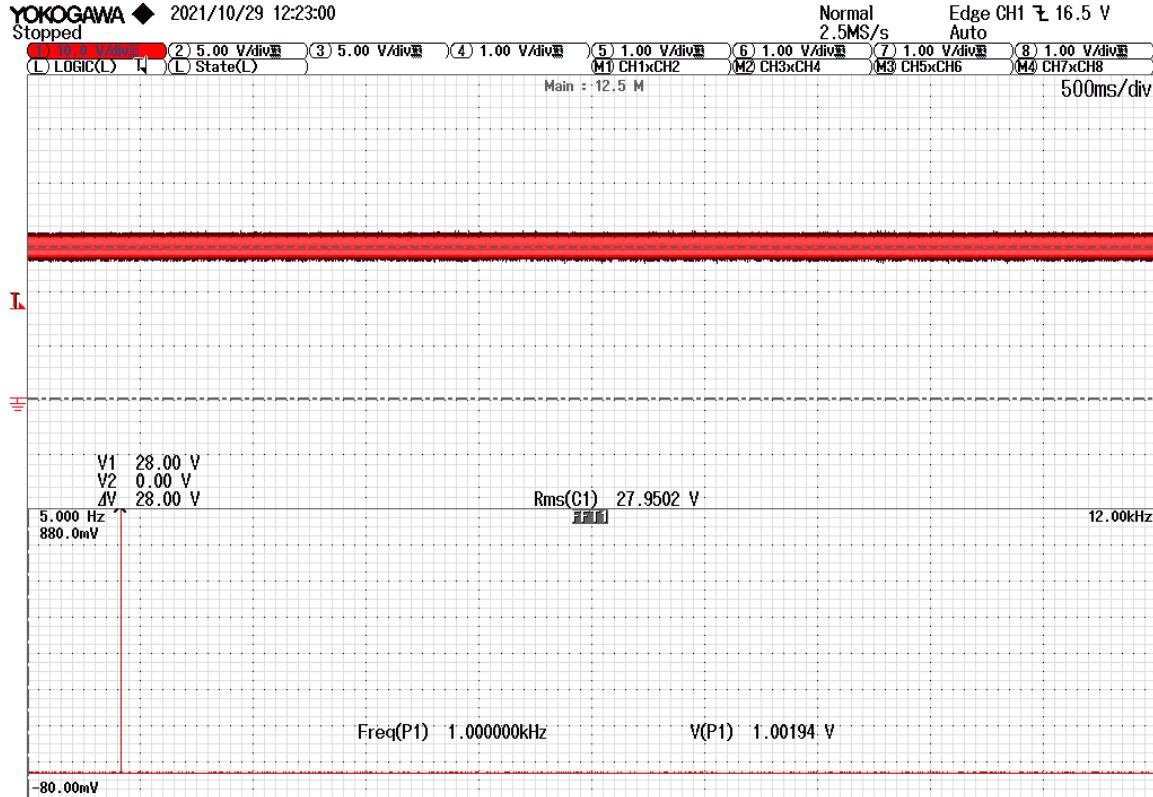
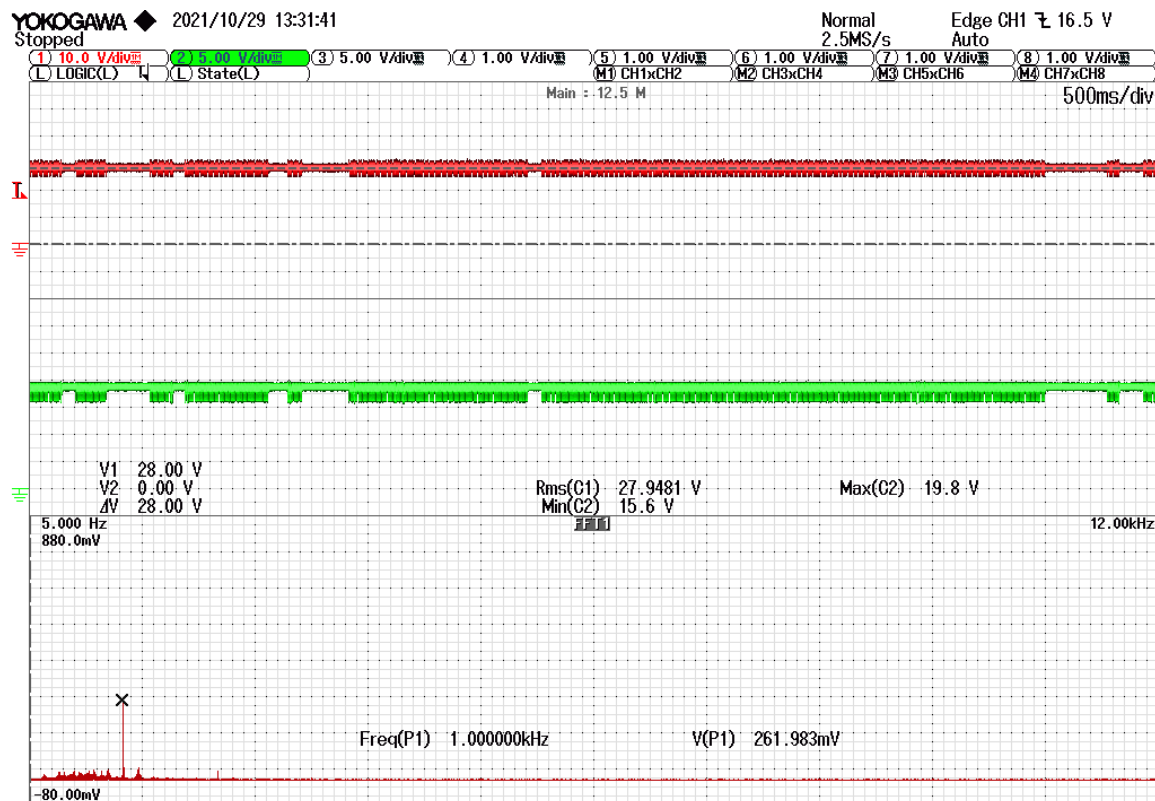


Figure C-9: Condition F, calibration, 1 kHz

Channel 1 = input voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2



Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

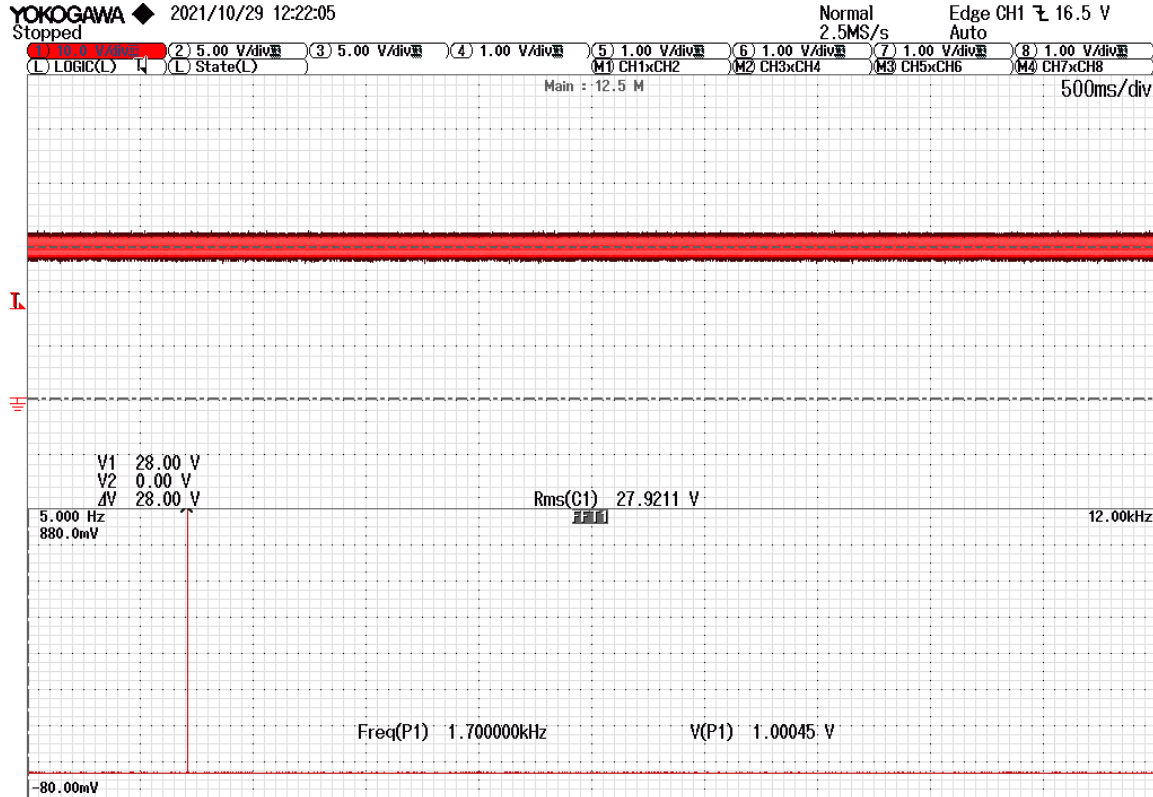


Figure C-11: Condition G, calibration, 1.7 kHz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

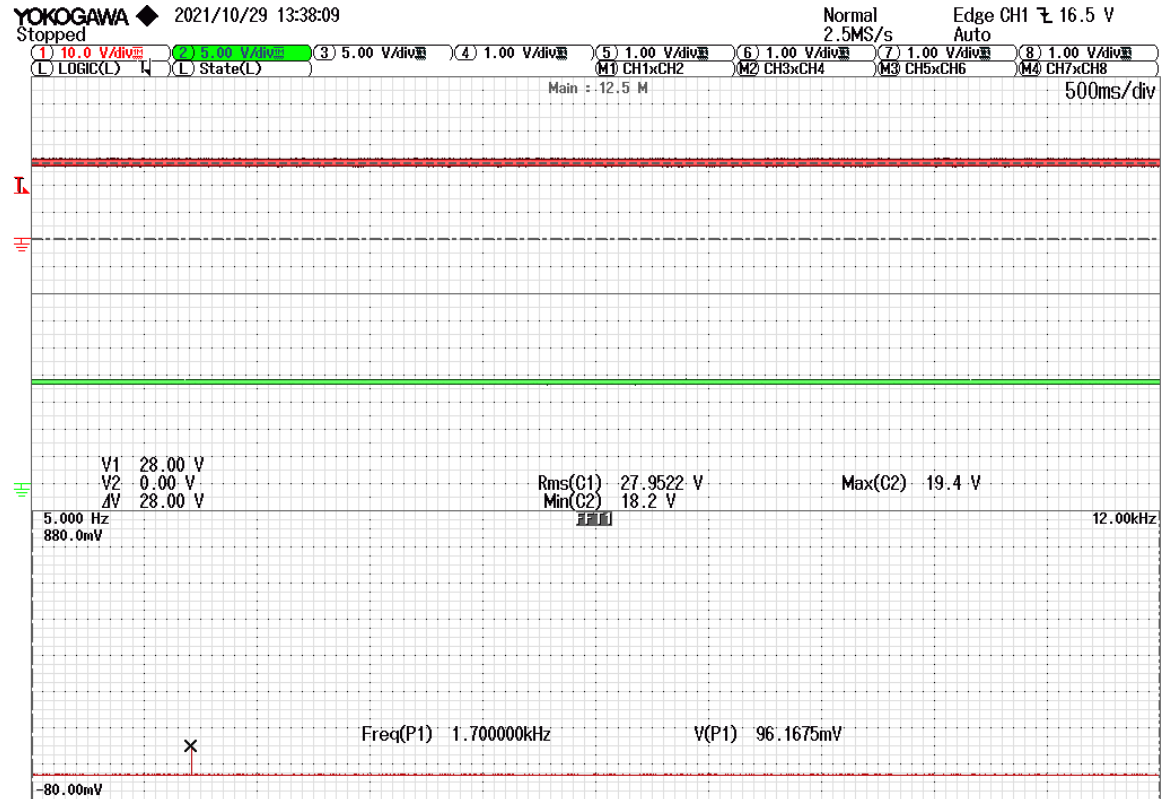


Figure C-12: Condition G, 1.7 kHz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

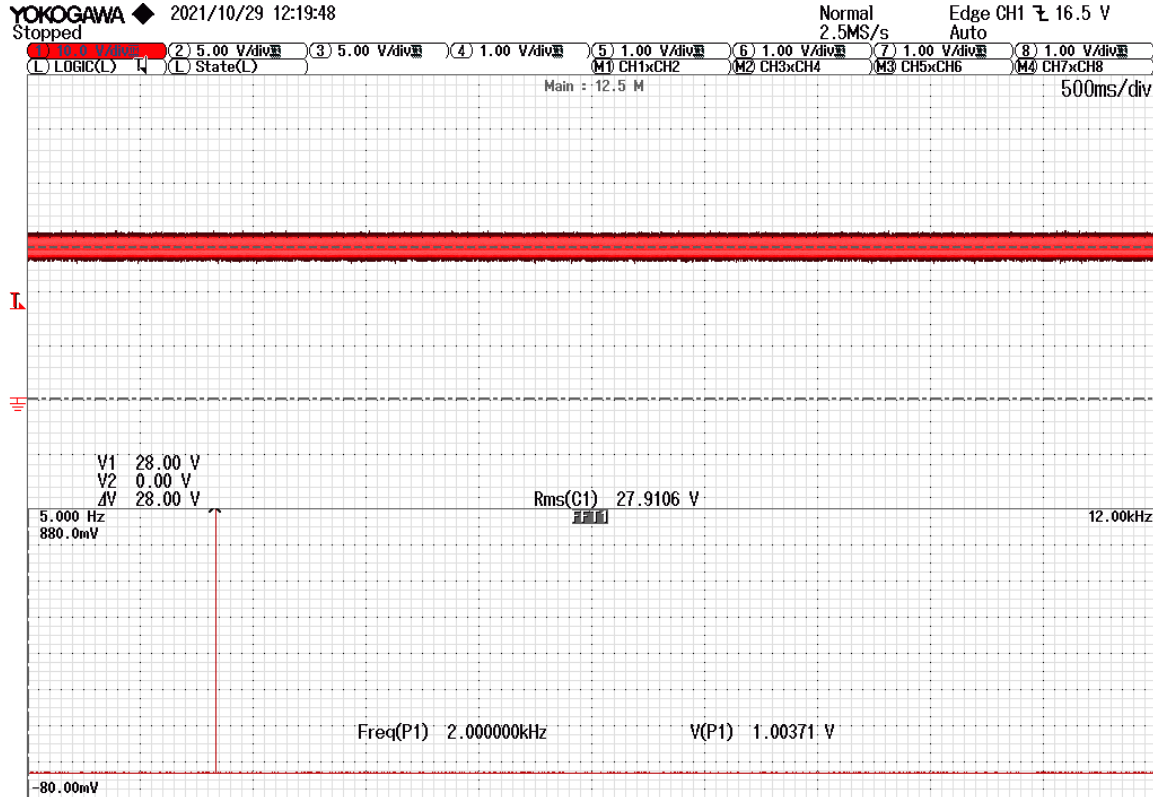


Figure C-13: Condition H, calibration, 2 kHz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

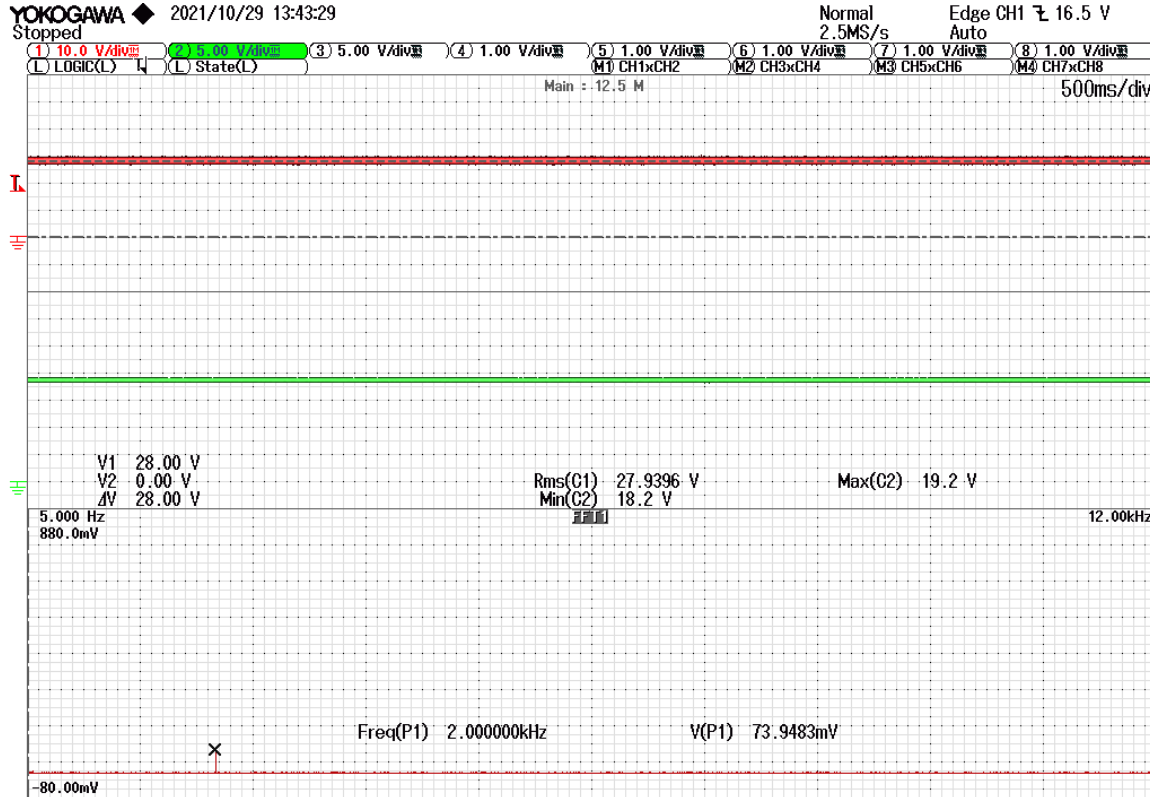


Figure C-14: Condition H, 2 kHz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

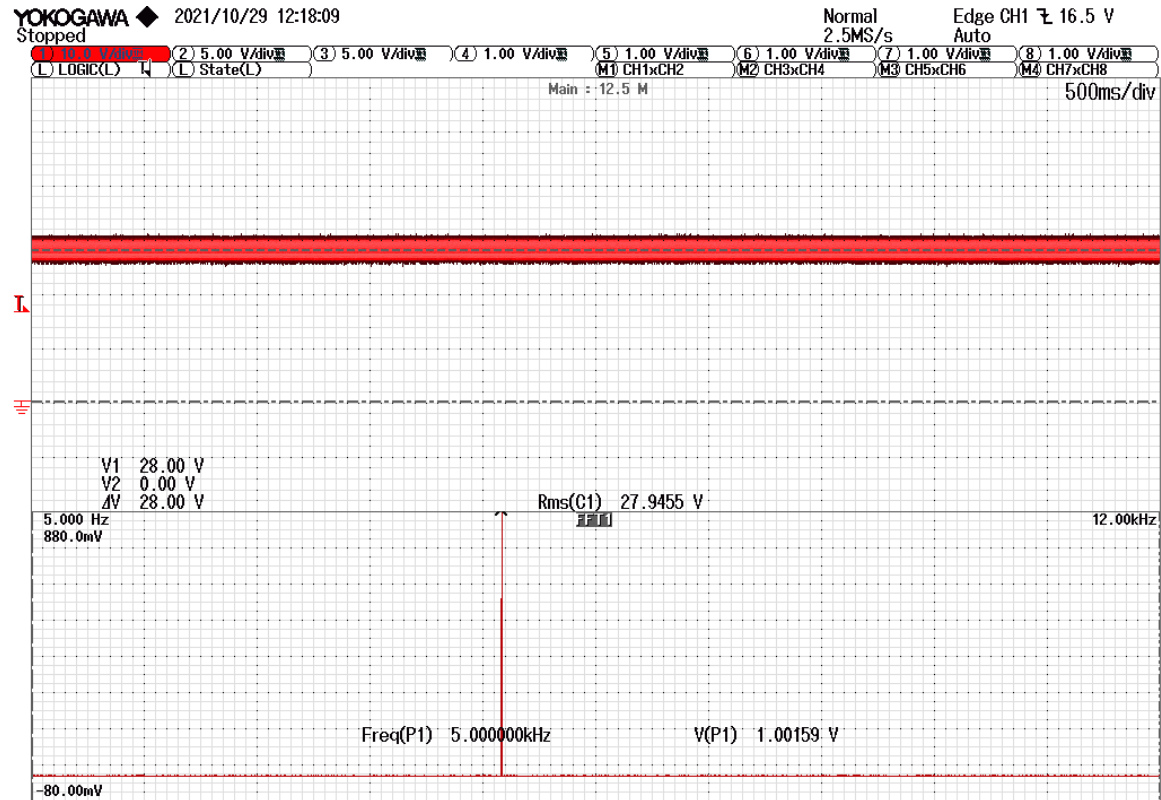


Figure C-15: Condition I, calibration, 5 kHz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

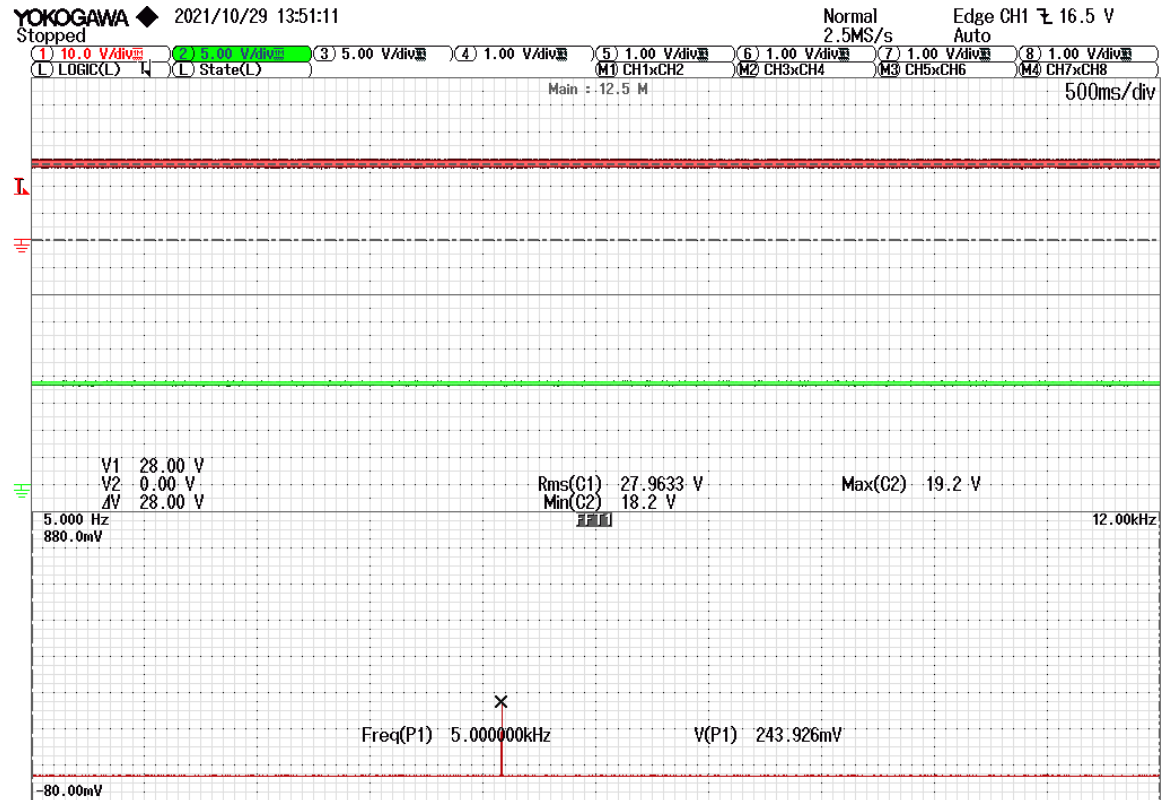


Figure C-16: Condition I, 5 kHz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

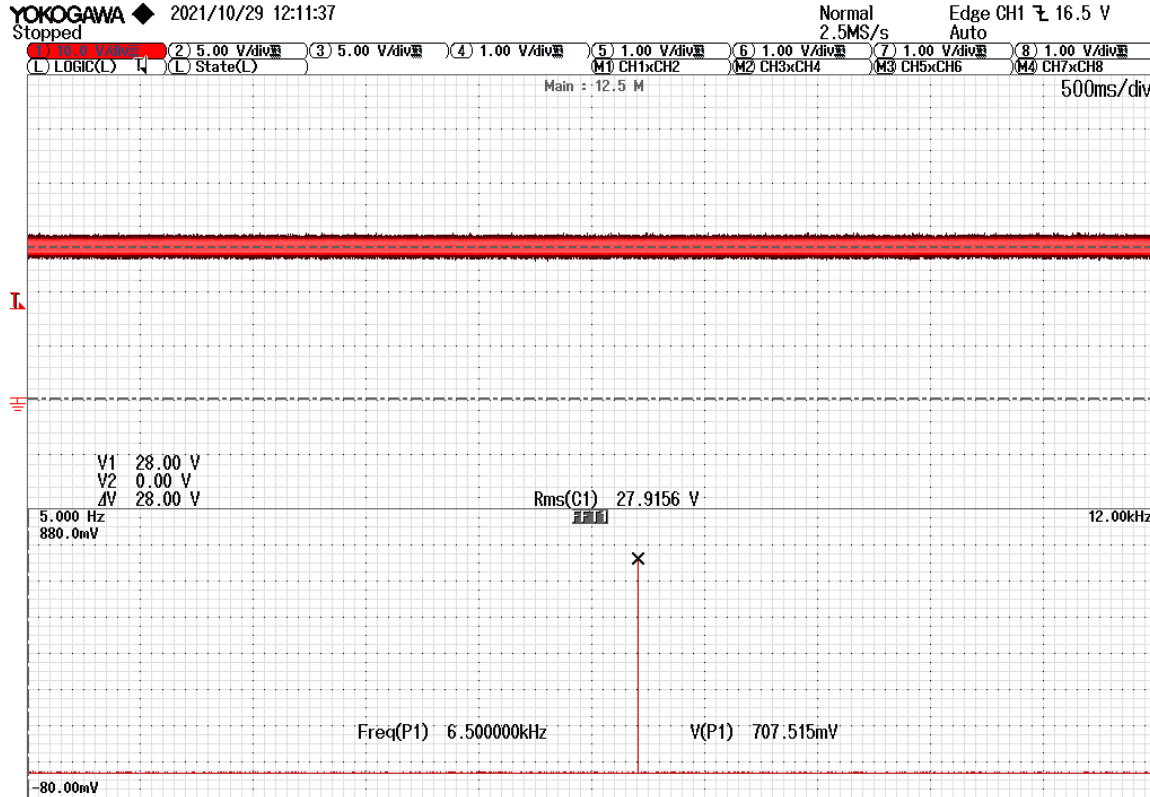


Figure C-17: Condition J, calibration, 6.5 kHz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

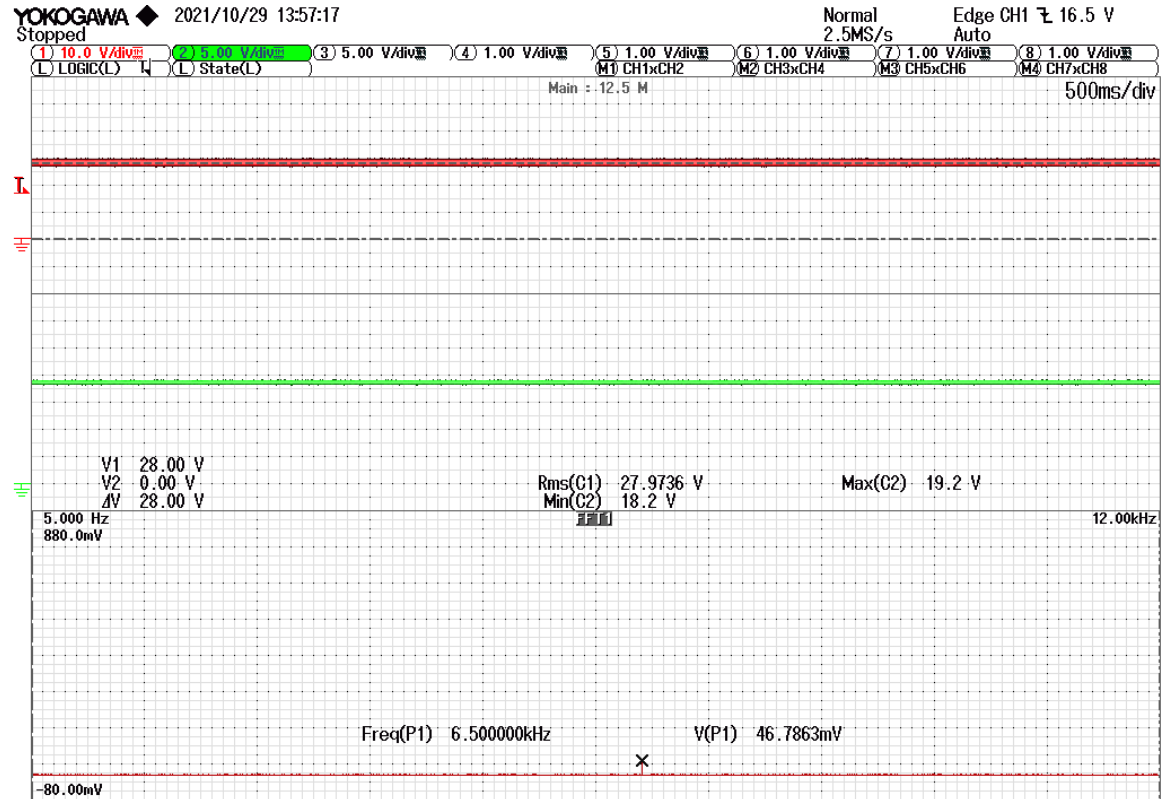


Figure C-18: Condition J, 6.5 kHz

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

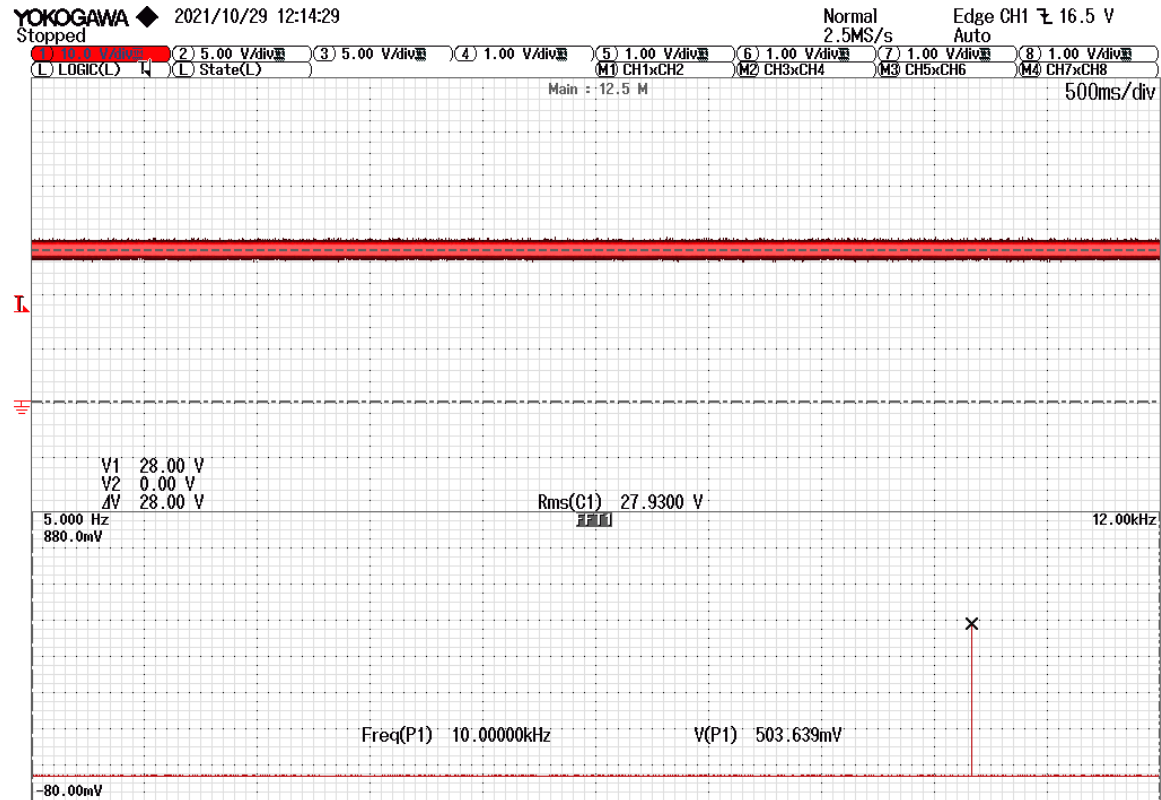


Figure C-19: Condition K, calibration, 10 kHz

Channel 1 = input voltage



Data sheet

LDC103 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC103		
DUT description	DC/DC Converter	Test date(s)	10/28/2021 to 10/28/2021	Location	Groundplane G2

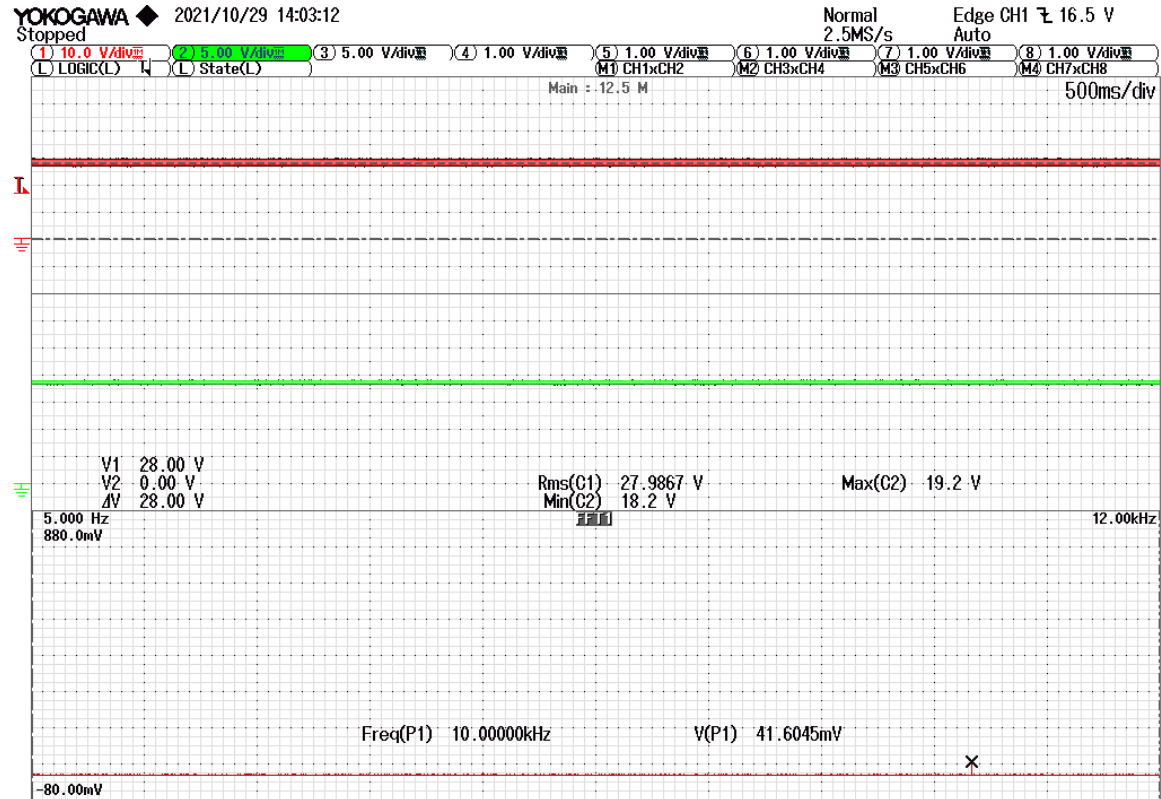


Figure C-20: Condition K, 10 kHz

Channel 1 = input voltage, channel 2 = output voltage

Appendix D: LDC104 Total Ripple



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-176	Amplifier	N/A	310-048	Waveform generator	N/A	
300-037	Oscilloscope	X	230-130	Differential probe	X	
230-123	Differential probe	X	230-124	Current probe	X	
230-131	Differential probe	X	210-059	Multimeter	X	
380-549	DC power supply	N/A	400-060	Stopwatch	X	

LDC104 Total Ripple Test results						
Condition	EUT mode	Nominal voltage	Frequency	Interval	Result	Notes
Condition A	N/A	28 Vdc	N/A	N/A	N/A	Figures F-1 through F-6, waveform verification
Condition A	Powered	28 Vdc	1200 Hz	30 min	Pass	Figures F-7 through F-10
Condition B	N/A	28 Vdc	N/A	N/A	N/A	Figures F-11 through F-16, waveform verification
Condition B	Powered	28 Vdc	2400 Hz	30 min	Pass	Figures F-17 through F-20

LDC104 Total Ripple, Condition A calibration data		
Frequency (Hz)	Differential probe factor	Ripple voltage (Vrms)
1200	1/100	828.046 mV
2400	1/100	163.609 mV
3600	1/100	277.745 mV
4800	1/100	83.204 mV
6000	1/100	131.06 mV
7200	1/100	41.681 mV
8400	1/100	70.509 mV



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

LDC104 Total Ripple, Condition B calibration data		
Frequency (Hz)	Differential probe factor	Ripple voltage (Vrms)
2400	1/100	818.631 mV
4800	1/100	160.53 mV
7200	1/100	265.169 mV
9600	1/100	81.425 mV
12000	1/100	132.65 mV
14400	1/100	40.779 mV
16800	1/100	61.213 mV

LDC104 Total Ripple, Condition A and B Test results			
Condition A		Condition B	
Frequency (Hz)	Ripple amplitude (Vrms)	Frequency (Hz)	Ripple amplitude (Vrms)
1200	542.0 mV	2400	412.7 mV
2400	83.2 mV	4800	64.6 mV
3600	123.4 mV	7200	131.2 mV
4800	33.2 mV	9600	23.5 mV
6000	62.3 mV	12000	58.2 mV
7200	18.1 mV	14400	21.4 mV
8400	32.3 mV	16800	19.5 mV



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Photograph D-1: EUT identification



Data sheet
LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Photograph D-2: Calibration setup



Data sheet
LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Photograph D-3: Test setup and cable layout



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Photograph D-4: Test setup



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

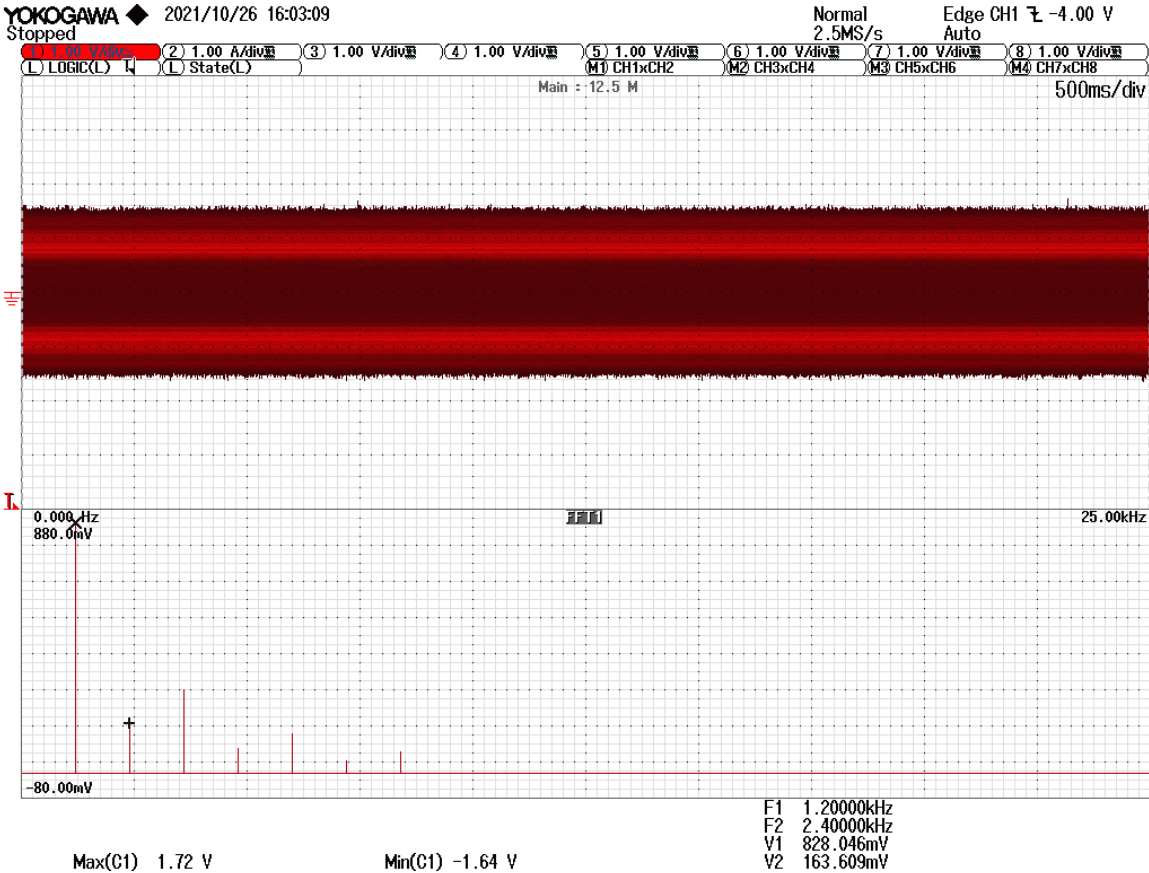


Figure D-1: Condition A, 1200 kHz and 2400 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

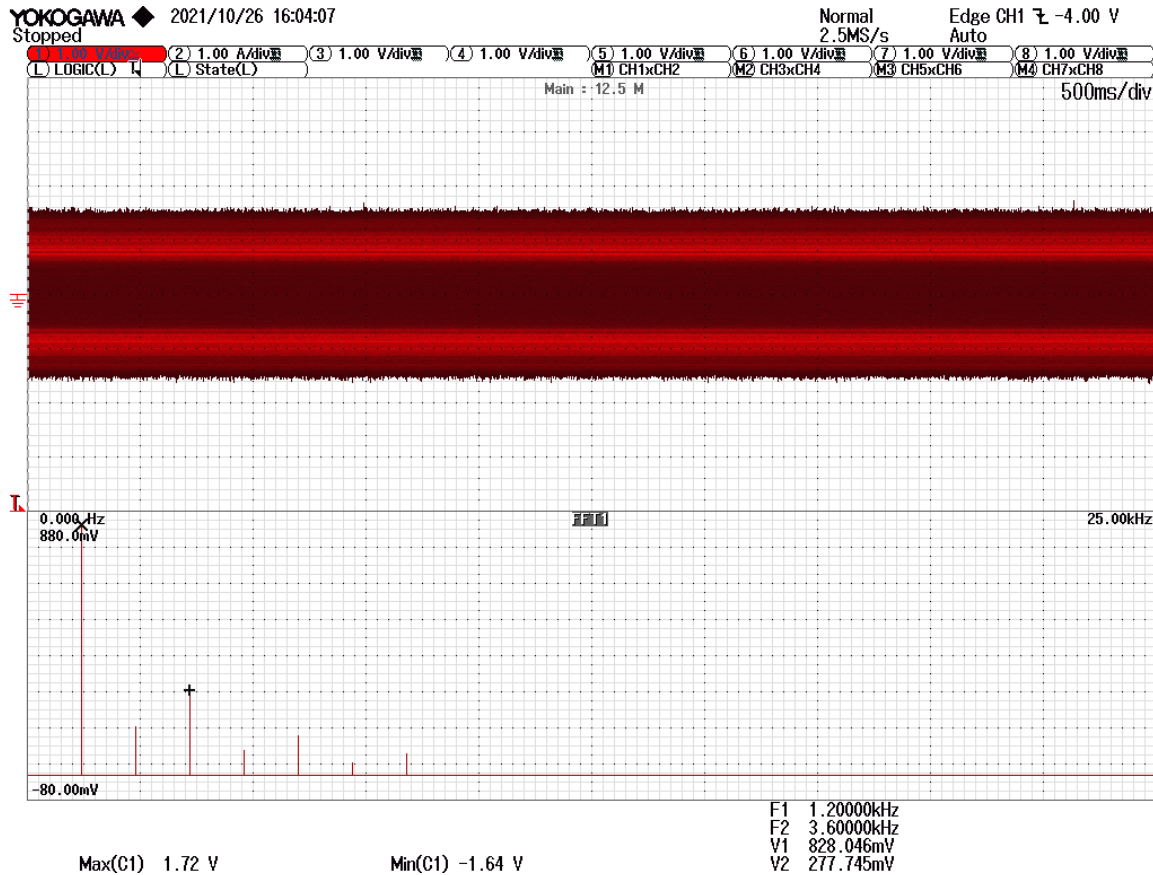


Figure D-2: Condition A, 3600 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

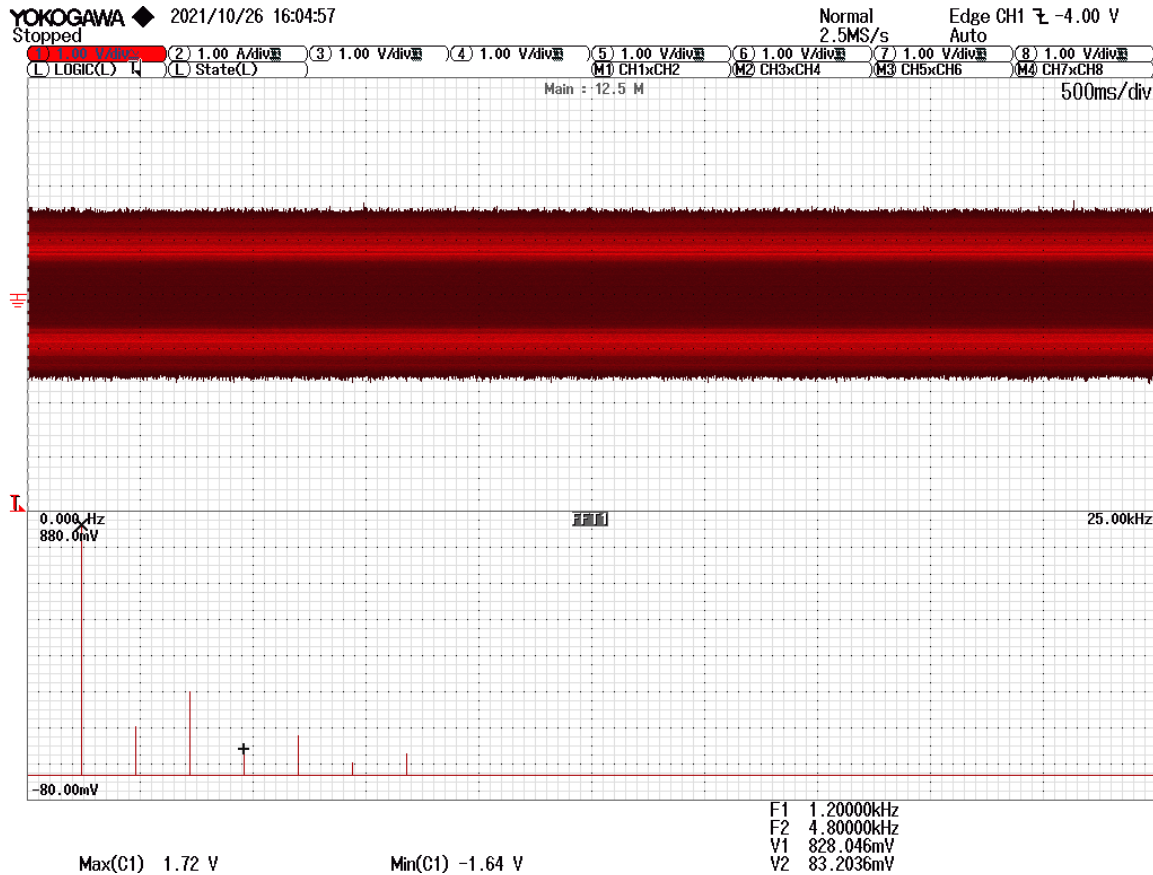


Figure D-3: Condition A, 4800 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

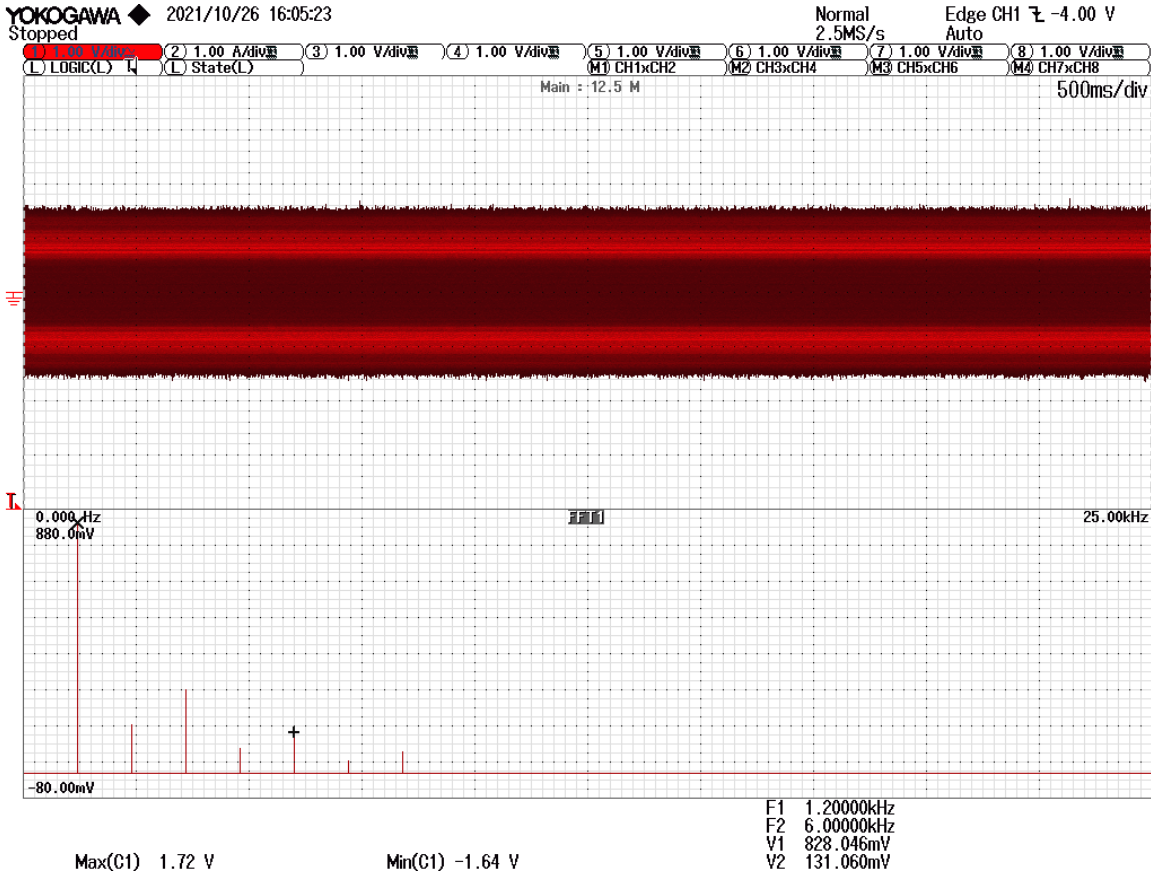


Figure D-4: Condition A, 6000 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

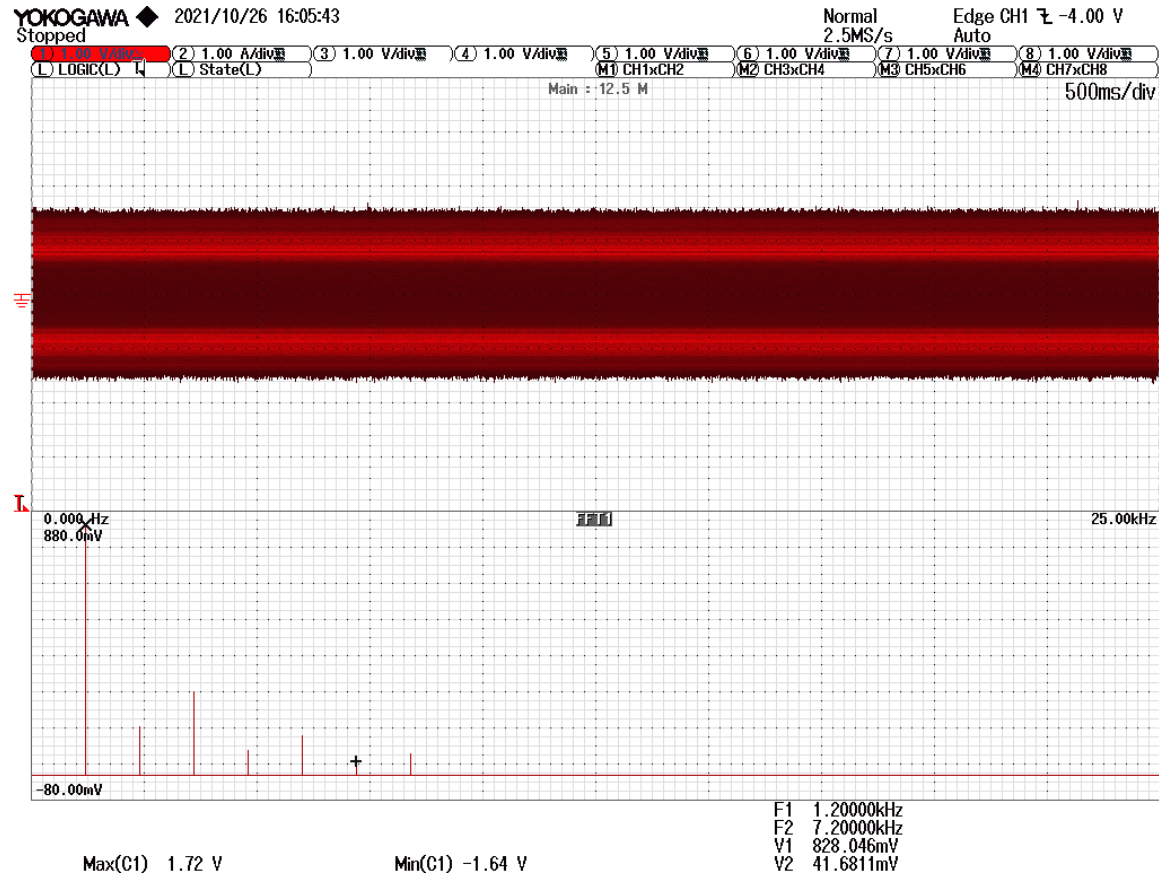


Figure D-5: Condition A, 7200 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

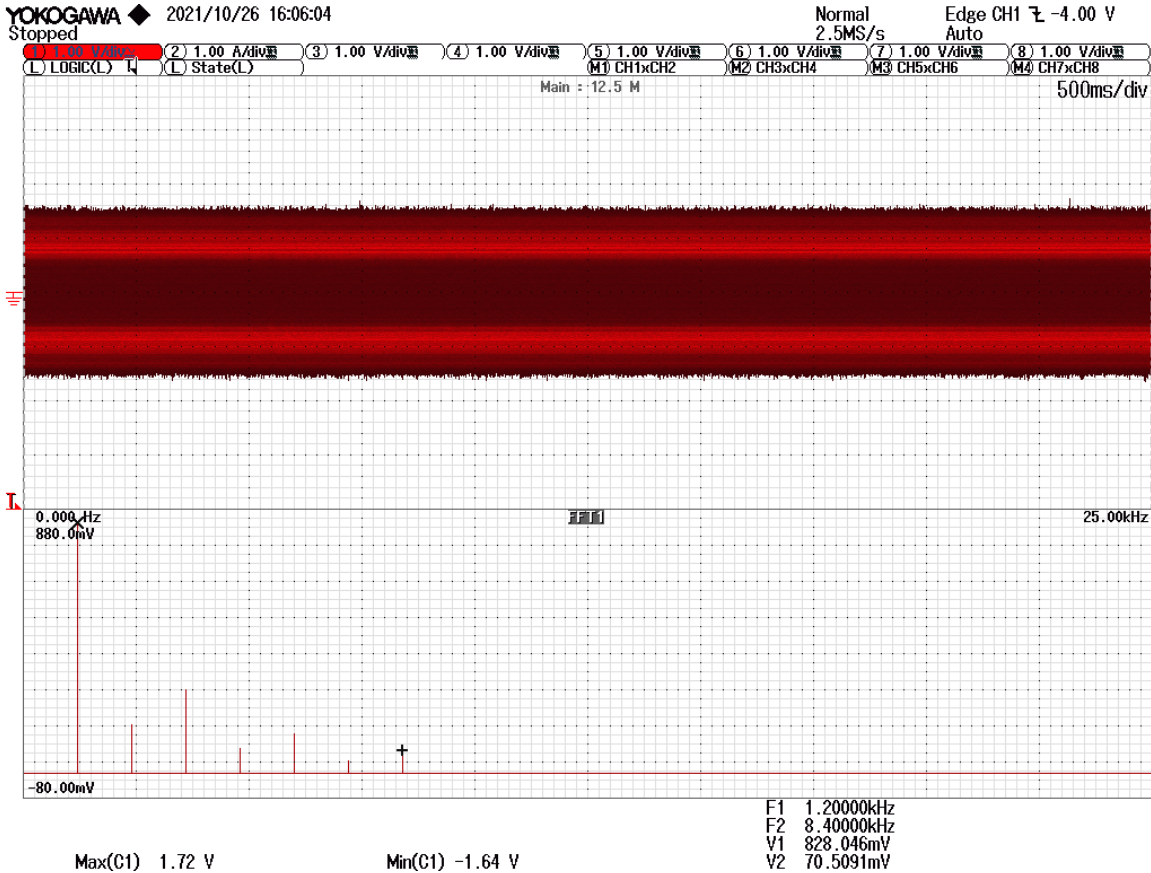


Figure D-6: Condition A, 8400 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet **LDC104 Total Ripple**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

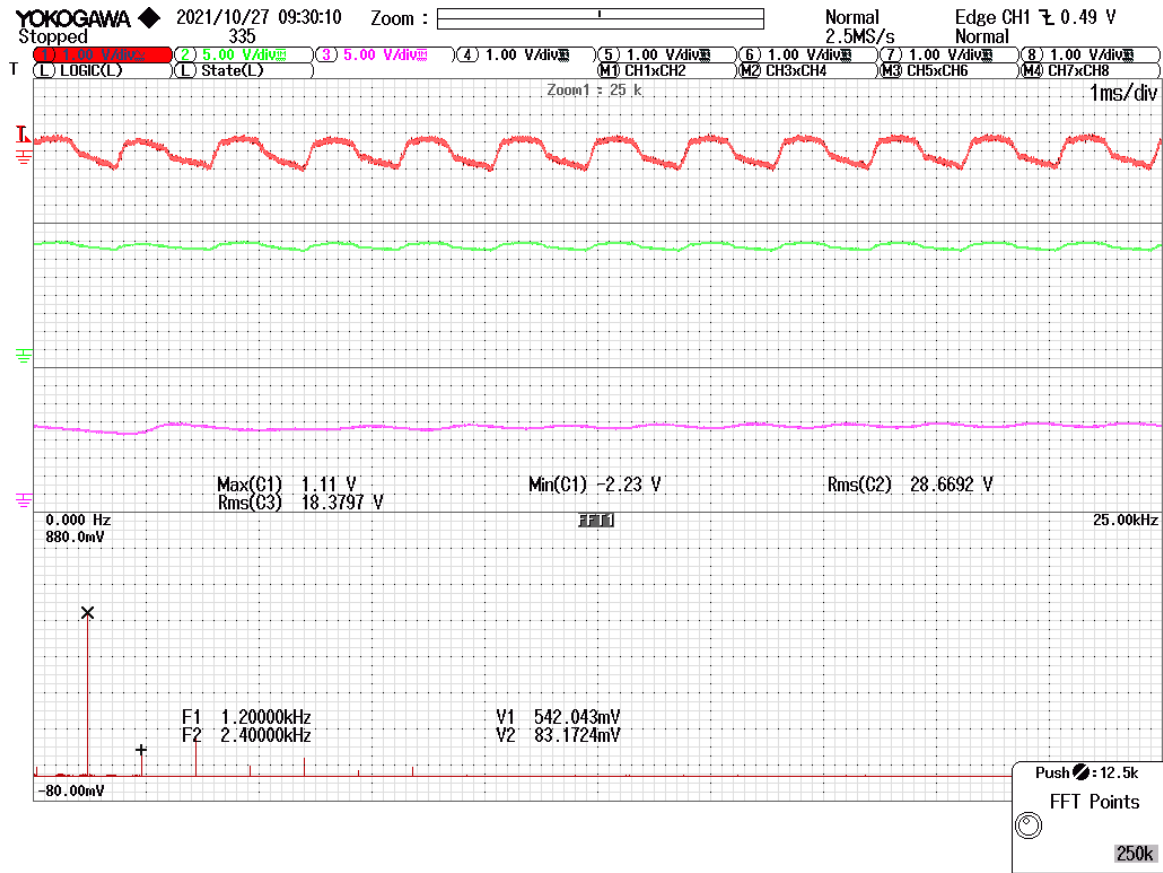


Figure D-7: Condition A, 1200 kHz and 2400 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

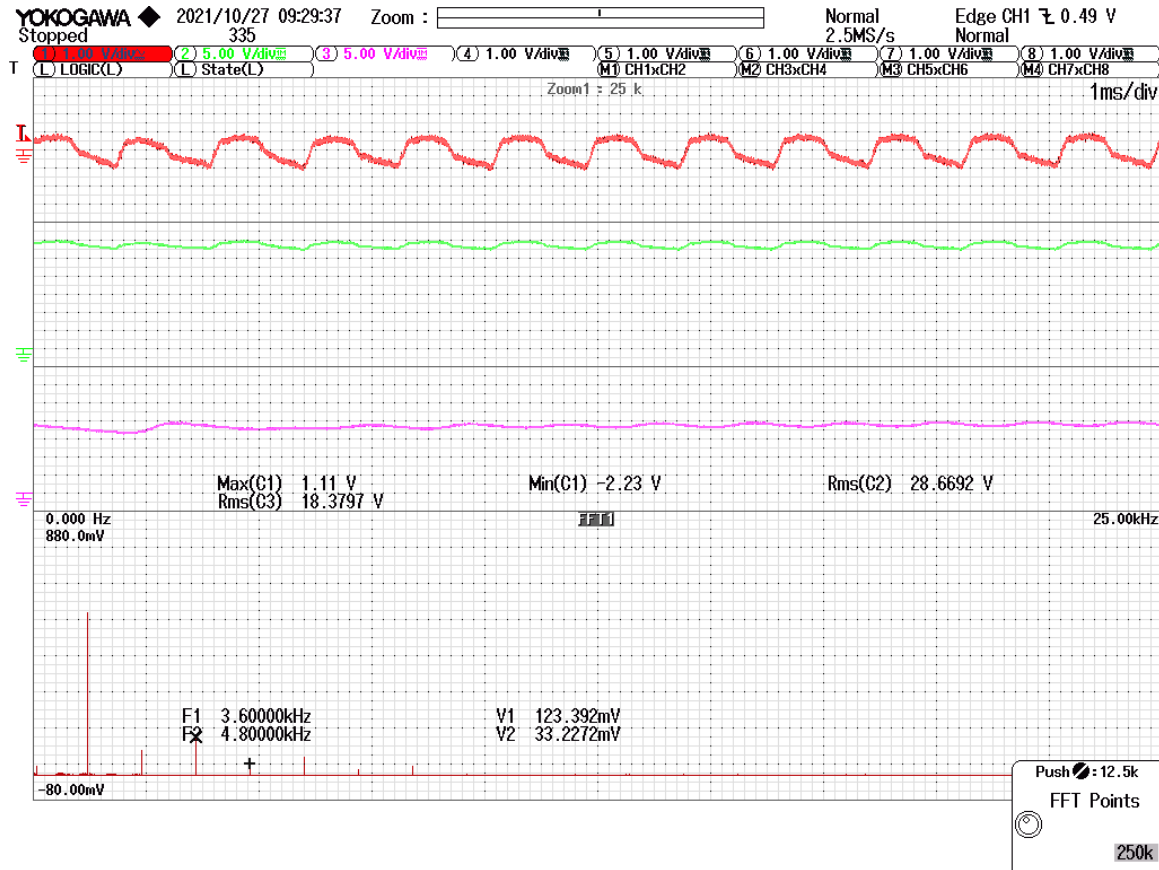


Figure D-8: Condition A, 3600 kHz and 4800 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

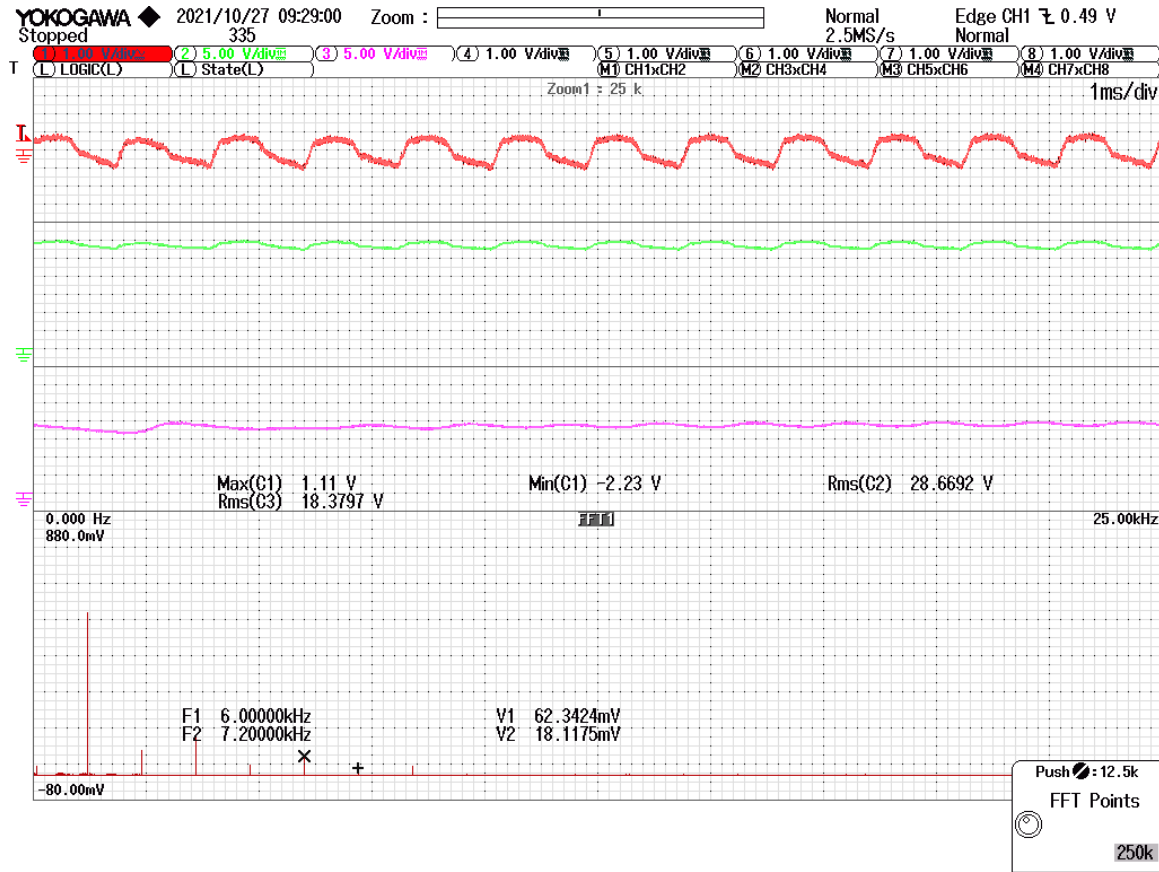


Figure D-9: Condition A, 6000 kHz and 7200 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

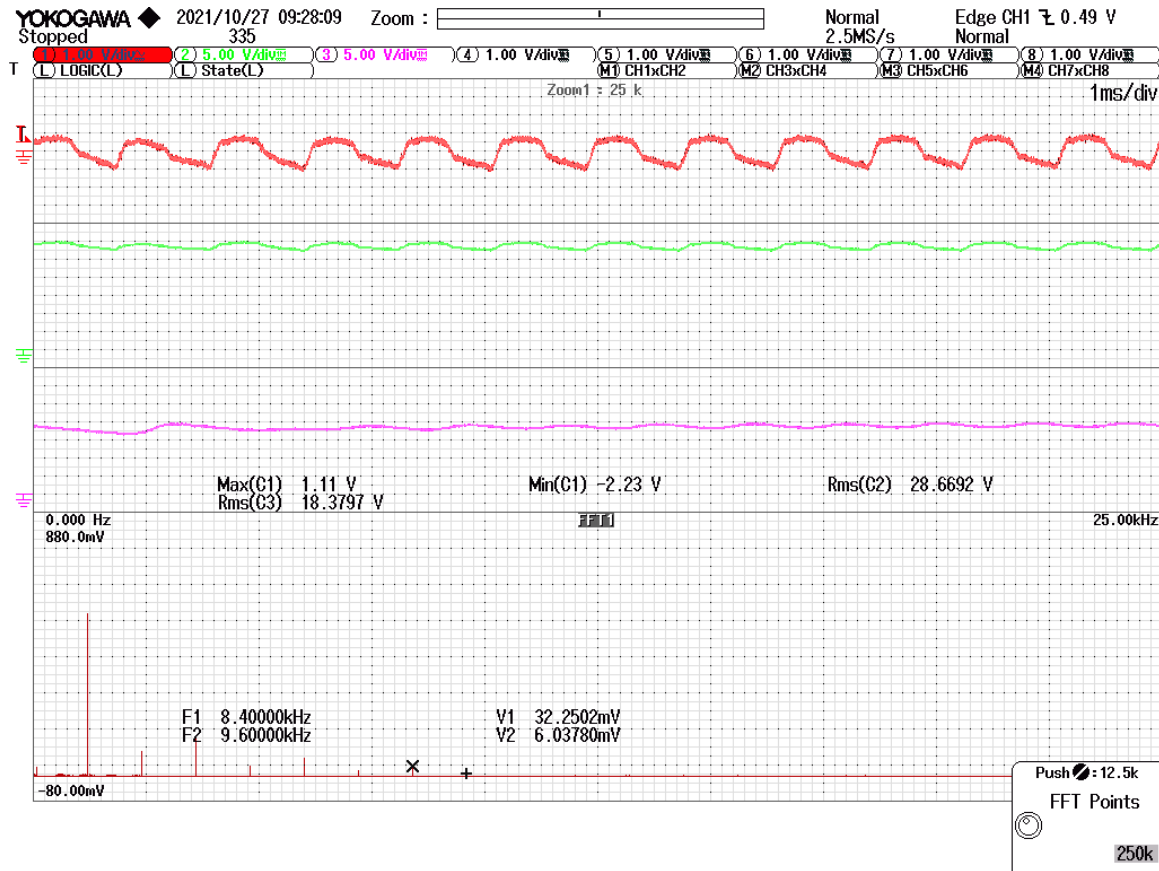
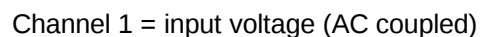


Figure D-10: Condition A, 8400 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2





Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

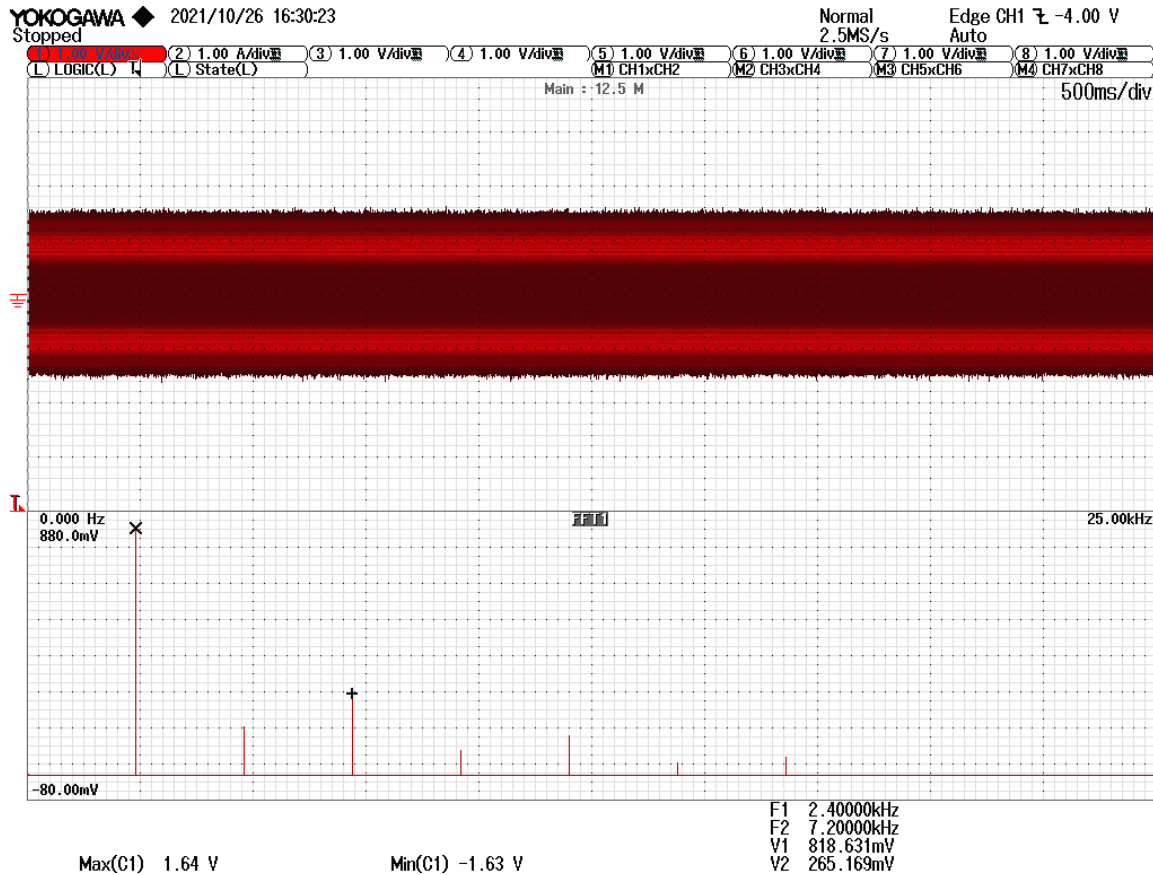


Figure D-12: Condition B, 7200 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

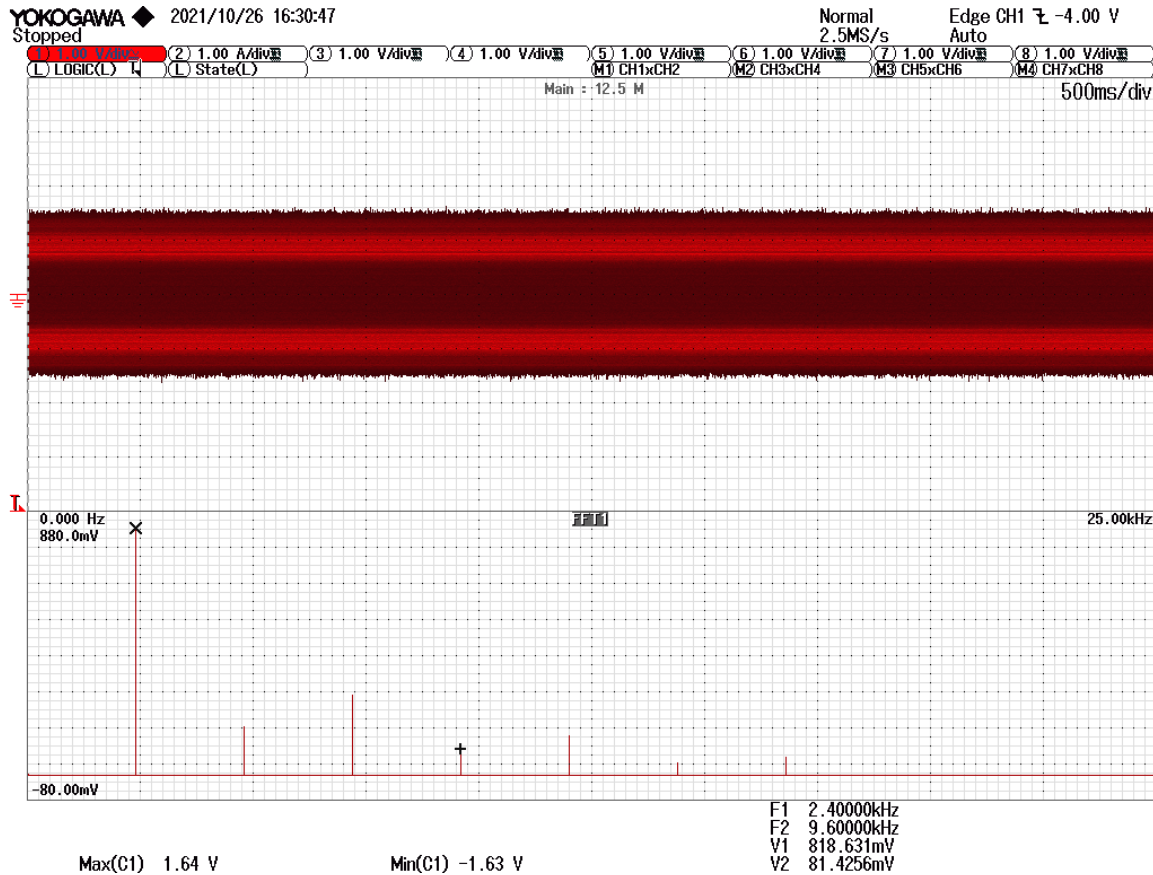


Figure D-13: Condition B, 9600 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

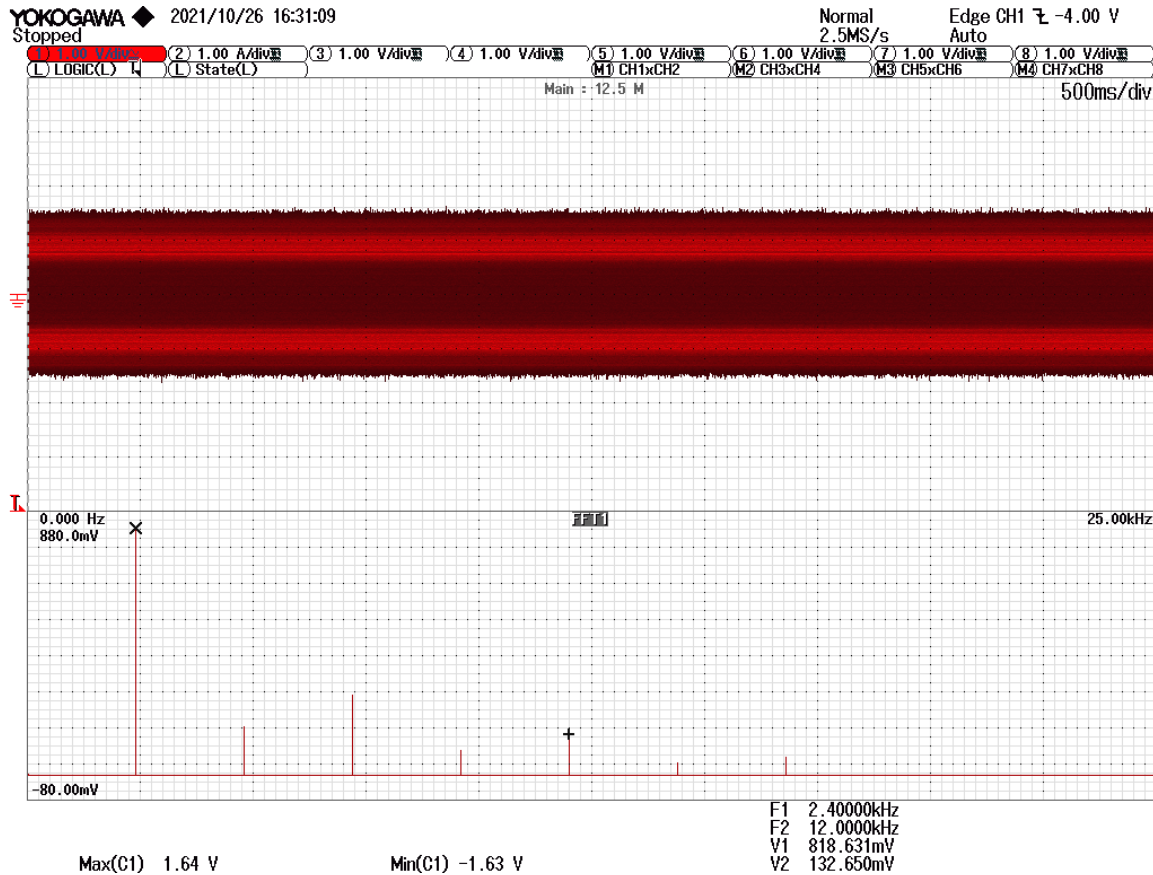


Figure D-14: Condition B, 12000 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

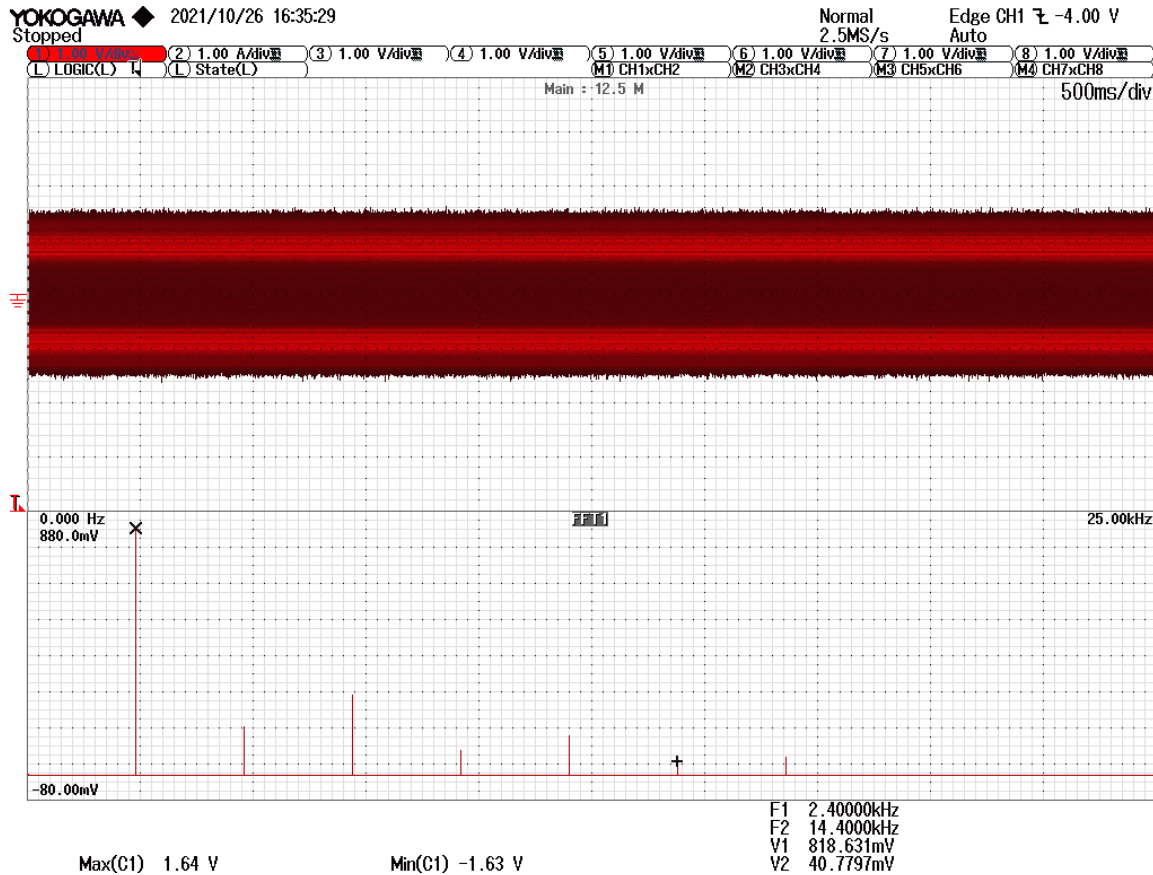


Figure D-15: Condition B, 14400 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

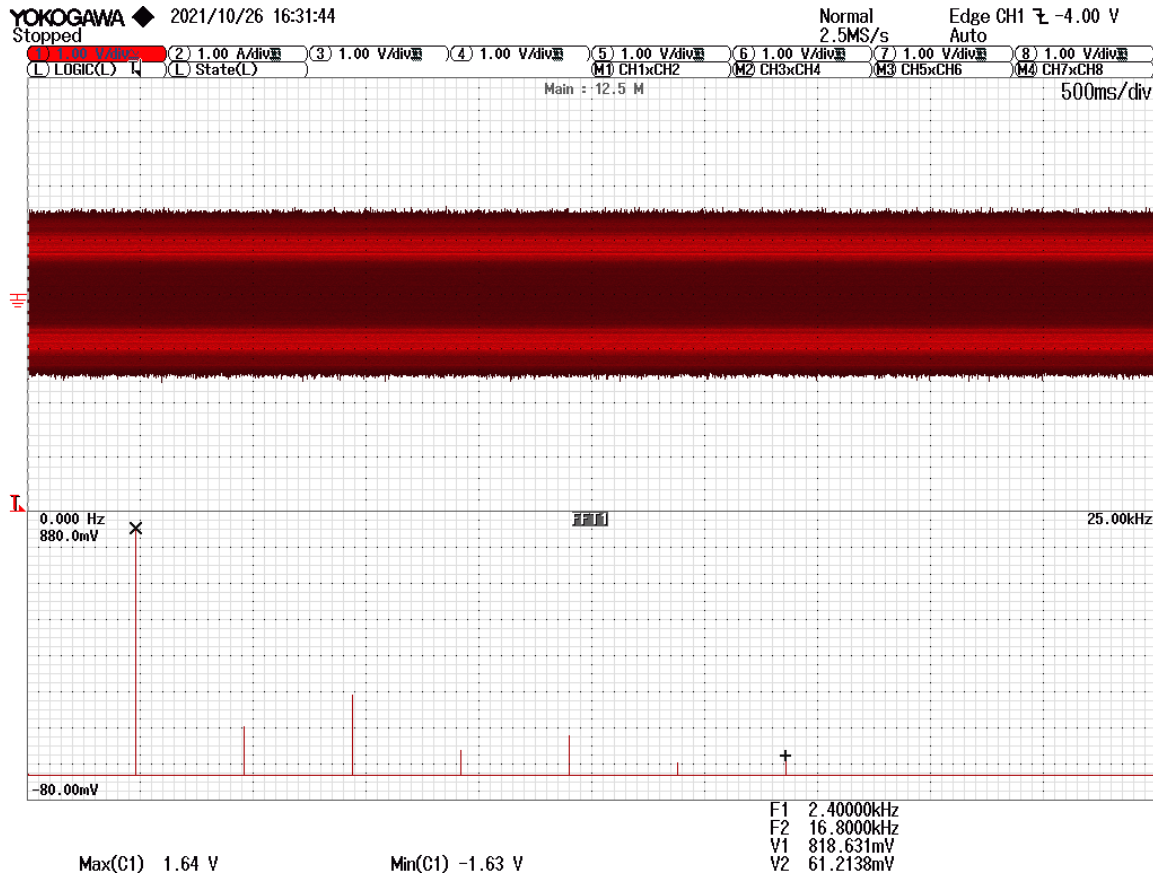


Figure D-16: Condition B, 16800 kHz, waveform verification

Channel 1 = input voltage (AC coupled)



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

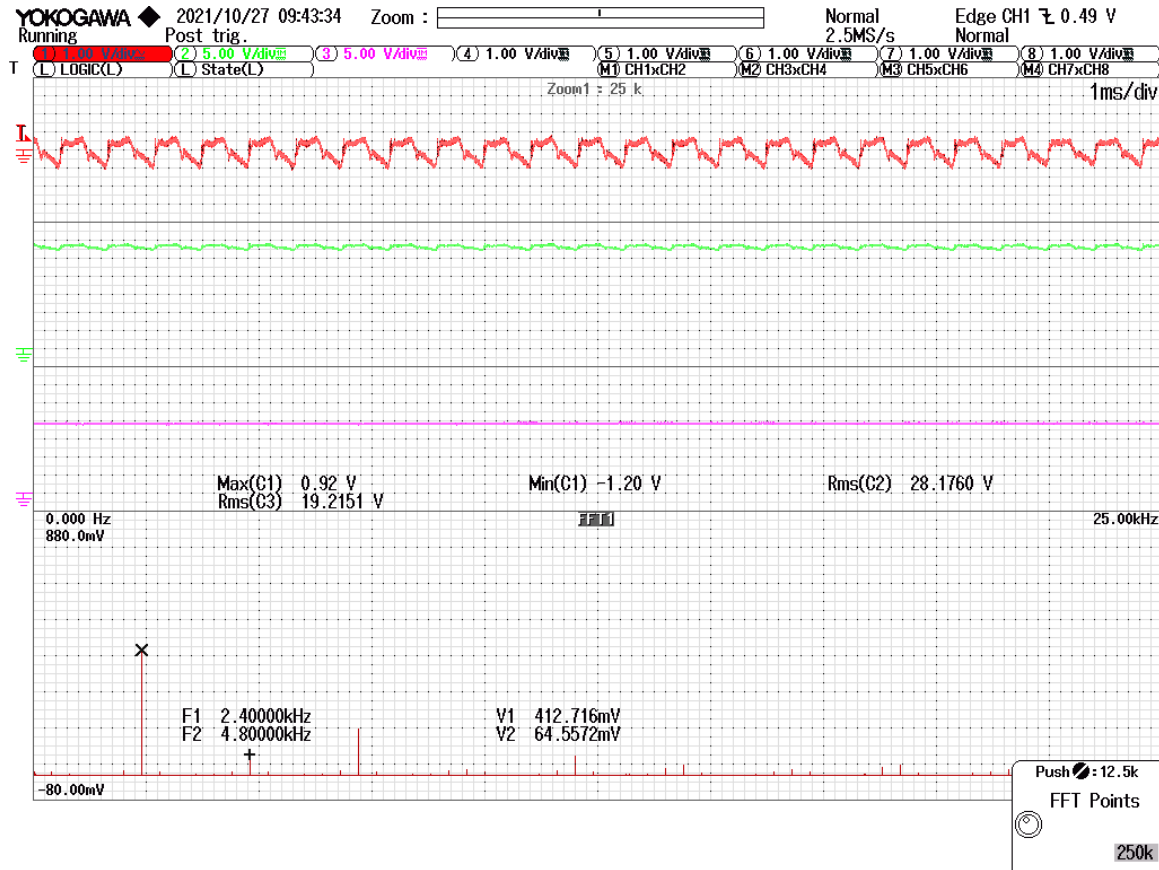


Figure D-17: Condition B, 2400 kHz and 4800 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Figure D-18: Condition B, 7200 kHz and 9600 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet

LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2

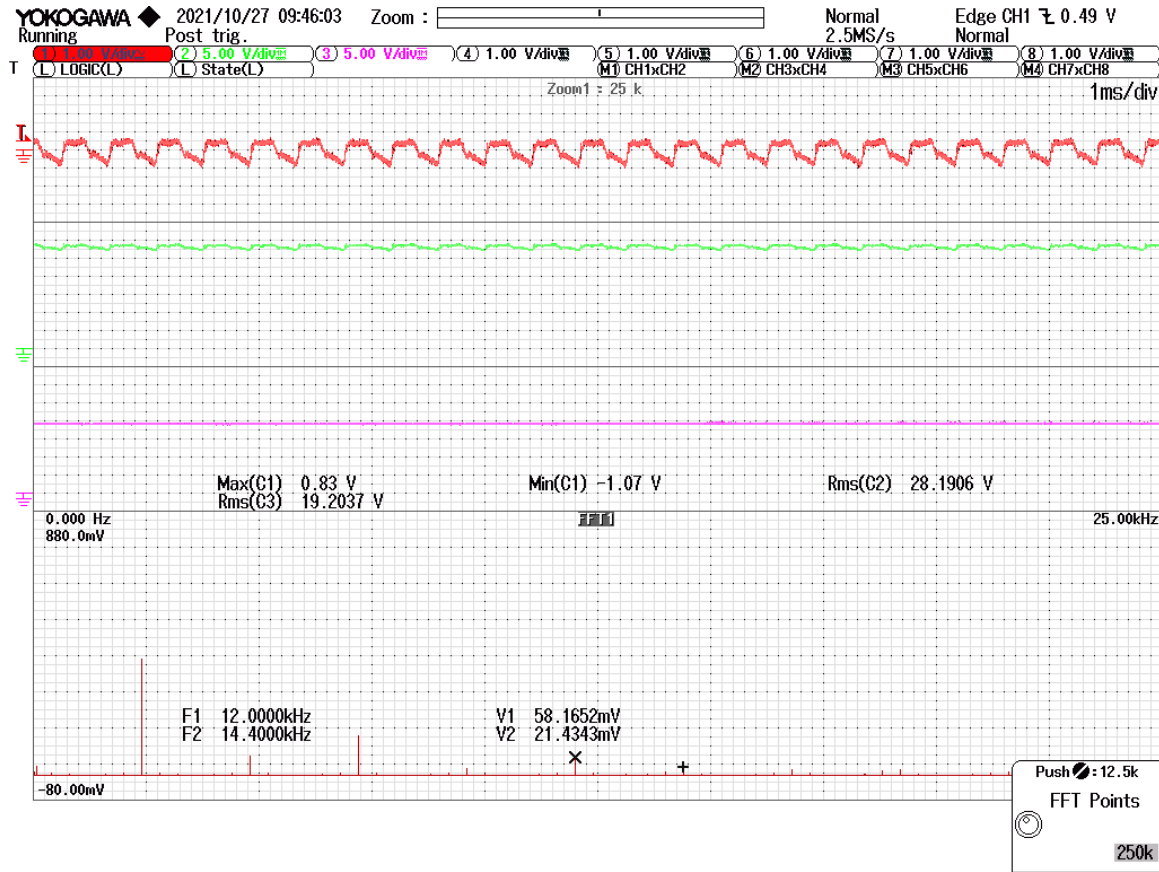


Figure D-19: Condition B, 12000 kHz and 14400 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage



Data sheet LDC104 Total Ripple

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC104		
DUT description	DC/DC Converter	Test date(s)	10/26/2021 to 10/27/2021	Location	Groundplane G2



Figure D-20: Condition B, 16800 kHz, test application

Channel 1 = input voltage (AC coupled), channel 2 = input voltage (DC coupled), channel 3 = output voltage

Appendix E: LDC105 Normal Voltage Transients



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
380-549	DC power supply	N/A	210-059	Multimeter	X	
210-530	Multimeter	X	350-176	Amplifier	N/A	
310-048	Arbitrary waveform generator	N/A	300-034	Oscilloscope	X	
230-130	Differential probe	X	230-124	Current probe	X	
230-123	Differential probe	X				

LDC105, Normal Operation, Voltage Transients and Overvoltage Transients Test results							
Test condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
AA	29 Vdc	50 Vdc	12.5 mSec	N/A	N/A	N/A	Figures E-1 through E-4, waveform verification
AA	29 Vdc	50 Vdc	12.5 mSec	Powered	5	Pass	Figures E-5 and E-6
BB	29 Vdc	50 Vdc	12.5 mSec	N/A	N/A	N/A	Figures E-7 through E-10, waveform verification
BB	29 Vdc	50 Vdc	12.5 mSec	Powered	5	Pass	Figures E-11 and E-12
CC	29 Vdc	40 Vdc	45 mSec	N/A	N/A	N/A	Figures 13 through E-16, waveform verification
CC	29 Vdc	40 Vdc	45 mSec	Powered	5	Pass	Figures E-17 and E-18
DD	29 Vdc	40 Vdc	45 mSec	N/A	N/A	N/A	Figures E-19 through E-22, waveform verification
DD	29 Vdc	40 Vdc	45 mSec	Powered	5	Pass	Figures E-23 and E-24
EE	29 Vdc	50 Vdc, 3 times	10 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures E-25 through E-35, waveform verification
EE	29 Vdc	50 Vdc, 3 times	10 mSec, every 0.5 Sec	Powered	5	Pass	Figures E-36 and E-37
FF	22 Vdc	50 Vdc	12.5 mSec	N/A	N/A	N/A	Figures E-38 through E-41, waveform verification
FF	22 Vdc	50 Vdc	12.5 mSec	Powered	5	Pass	Figures E-42 and E-43
GG	22 Vdc	50 Vdc	12.5 mSec	N/A	N/A	N/A	Figures E-44 through E-47, waveform verification
GG	22 Vdc	50 Vdc	12.5 mSec	Powered	5	Pass	Figures E-48 and E-49
HH	22 Vdc	40 Vdc	45 mSec	N/A	N/A	N/A	Figures E-50 through E-53, waveform verification
HH	22 Vdc	40 Vdc	45 mSec	Powered	5	Pass	Figures E-54 and E-55
II	22 Vdc	40 Vdc	45 mSec	N/A	N/A	N/A	Figures E-56 through E-59, waveform verification
II	22 Vdc	40 Vdc	45 mSec	Powered	5	Pass	Figures E-60 and E-61
JJ	22 Vdc	50 Vdc, 3 times	10 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures E-62 through E-72, waveform verification



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

LDC105, Normal Operation, Voltage Transients and Overvoltage Transients Test results							
Test condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
JJ	22 Vdc	50 Vdc, 3 times	10 mSec, every 0.5 Sec	Powered	5	Pass	Figures E-73 and E-74
KK	29 Vdc	18 Vdc	15 mSec	N/A	N/A	N/A	Figures E-75 through E-78, waveform verification
KK	29 Vdc	18 Vdc	15 mSec	Powered	5	Pass	Figures E-79 and E-80
LL	29 Vdc	18 Vdc	15 mSec	N/A	N/A	N/A	Figures E-81 through E-84, waveform verification
LL	29 Vdc	18 Vdc	15 mSec	Powered	5	Pass	Figures E-85 and E-86
MM	29 Vdc	18 Vdc, 3 times	10 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures E-87 through E-97, waveform verification
MM	29 Vdc	18 Vdc, 3 times	10 mSec, every 0.5 Sec	Powered	5	Pass	Figures E-98 and E-99
NN	22 Vdc	18 Vdc	15 mSec	N/A	N/A	N/A	Figures E-100 through E-103, waveform verification
NN	22 Vdc	18 Vdc	15 mSec	Powered	5	Pass	Figures E-104 and E-105
OO	22 Vdc	18 Vdc	15 mSec	N/A	N/A	N/A	Figures E-106 through E-109, waveform verification
OO	22 Vdc	18 Vdc	15 mSec	Powered	5	Pass	Figures E-110 and E-111
PP	22 Vdc	18 Vdc, 3 times	10 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures E-112 through E-122, waveform verification
PP	22 Vdc	18 Vdc, 3 times	10 mSec, every 0.5 Sec	Powered	5	Pass	Figures E-123 and E-124
QQ	29 Vdc	18 Vdc / 50 Vdc	10 mSec / 12.5 mSec	N/A	N/A	N/A	Figures E-125 through E-129, waveform verification
QQ	29 Vdc	18 Vdc / 50 Vdc	10 mSec / 12.5 mSec	Powered	5	Pass	Figures E-130 and E-131
RR	22 Vdc	18 Vdc / 50 Vdc	10 mSec / 12.5 mSec	N/A	N/A	N/A	Figures E-132 through E-136, waveform verification
RR	22 Vdc	18 Vdc / 50 Vdc	10 mSec / 12.5 mSec	Powered	5	Pass	Figures E-137 and E-138
Repetitive Transient	28.5 Vdc	18 Vdc / 45 Vdc	N/A	N/A	N/A	N/A	Figures E-139 through E-141, waveform verification
Repetitive Transient	28.5 Vdc	18 Vdc / 45 Vdc	30 min	Powered	5	Pass	Figures E-142 and E-143



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Photograph E-1: EUT identification



Data sheet
LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Photograph E-2: Test setup, waveform verification



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Photograph E-3: Test setup, waveform verification



Data sheet
LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Photograph E-4: Test setup



Data sheet
LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Photograph E-5: Test setup



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

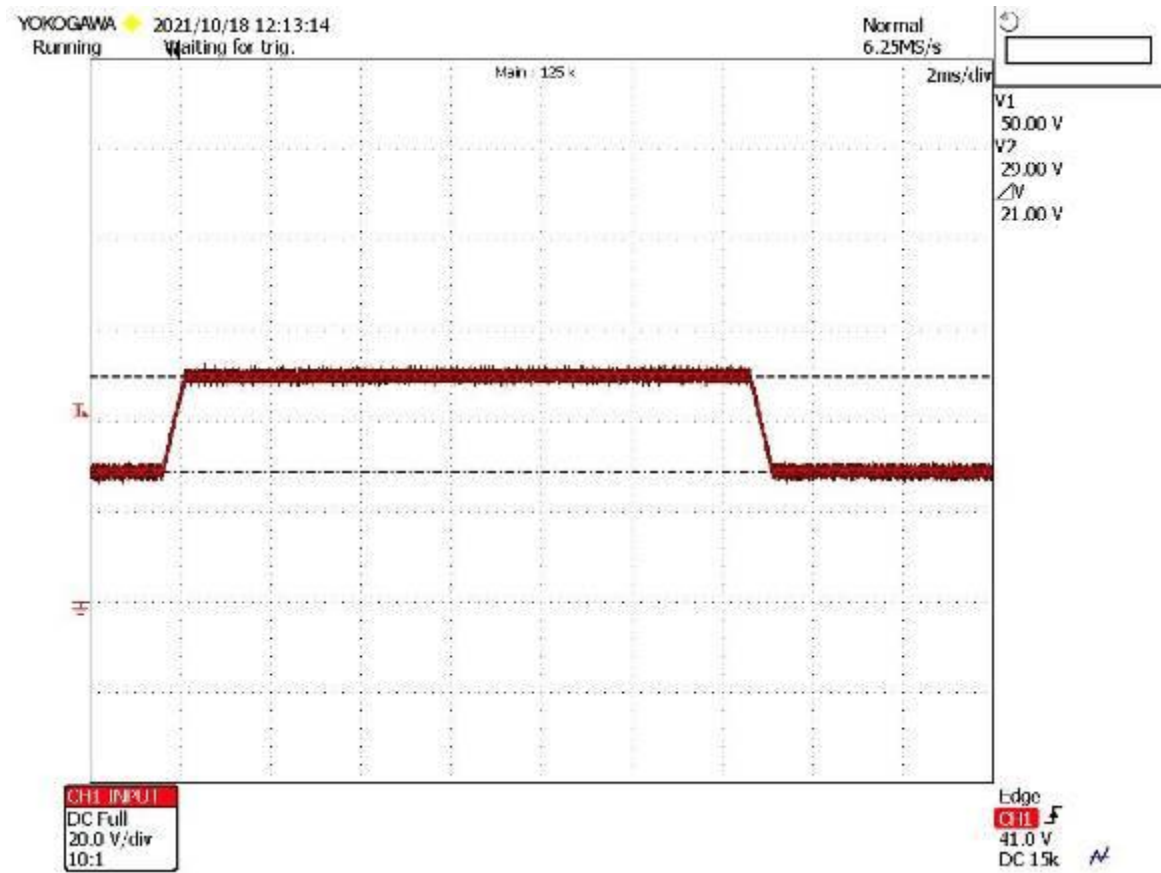


Figure E-1: LDC105, Condition AA, waveform verification, steady state voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

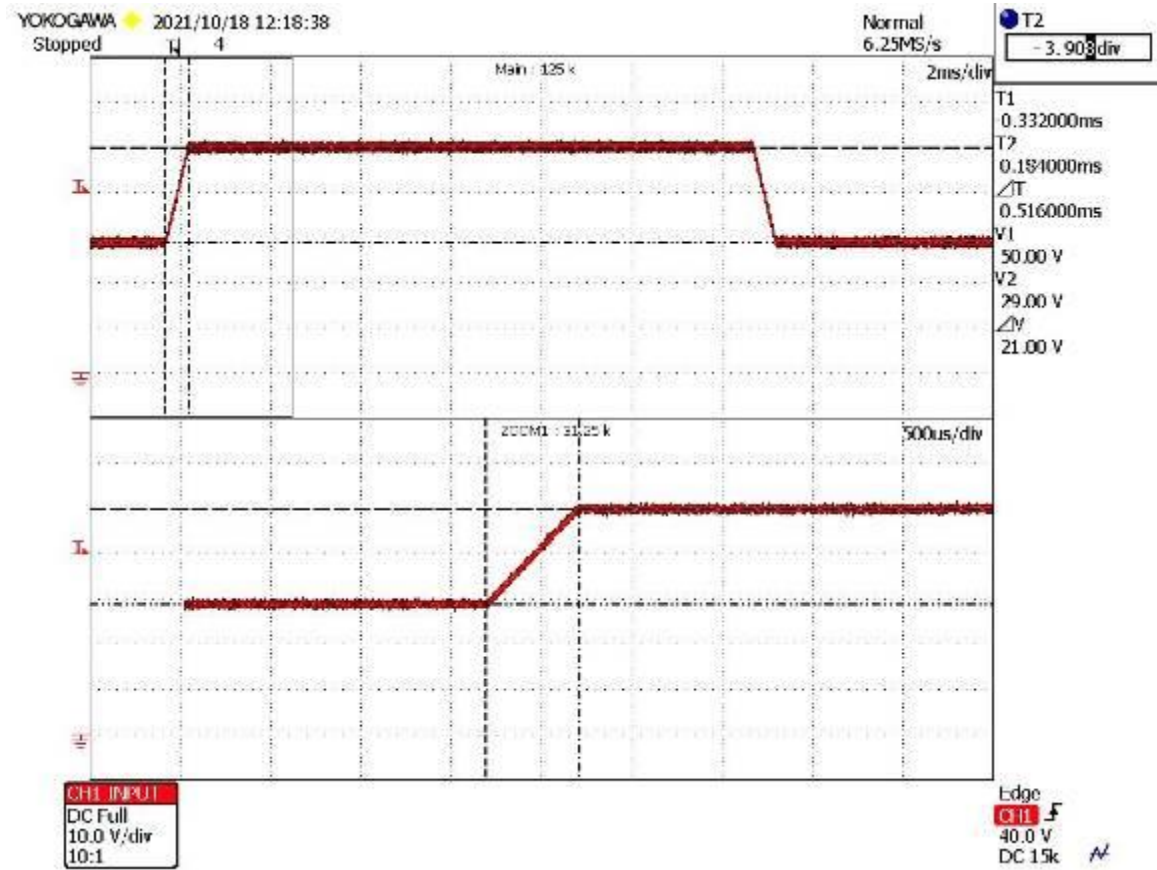


Figure E-2: LDC105, Condition AA, waveform verification, rise time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

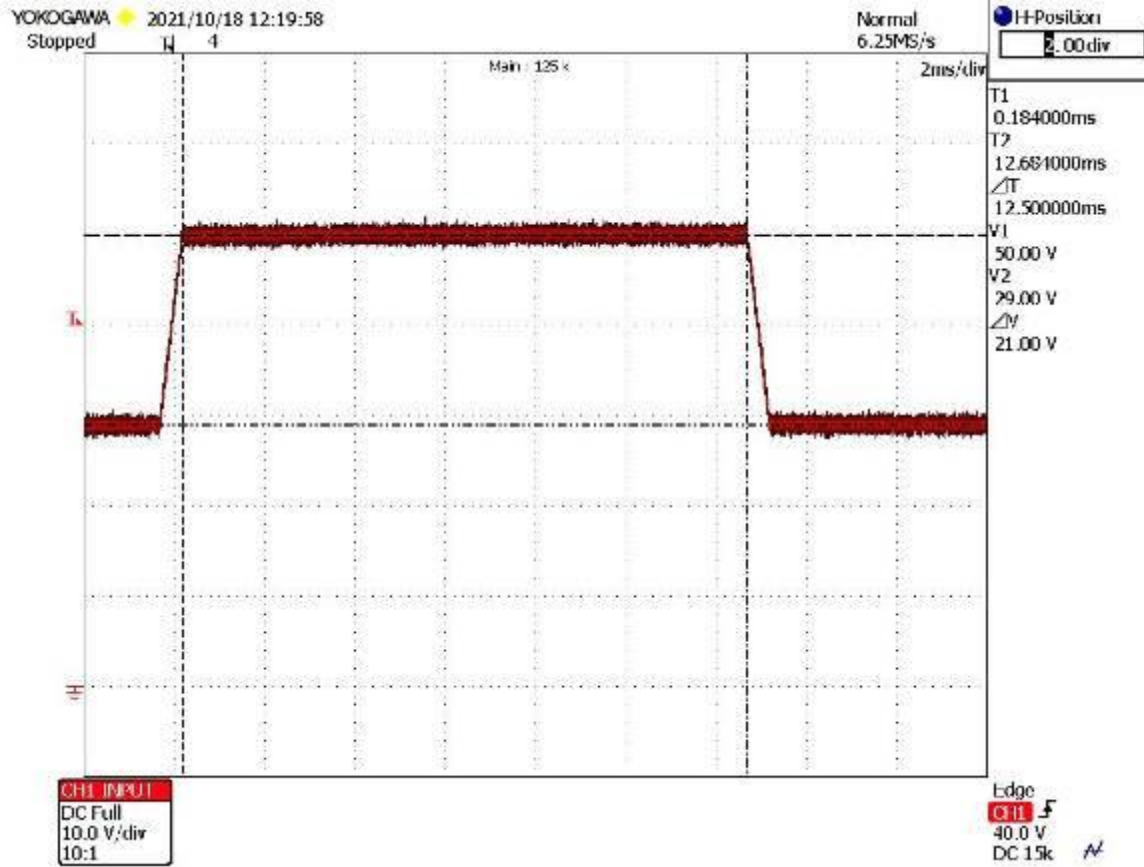


Figure E-3: LDC105, Condition AA, waveform verification, transient level duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

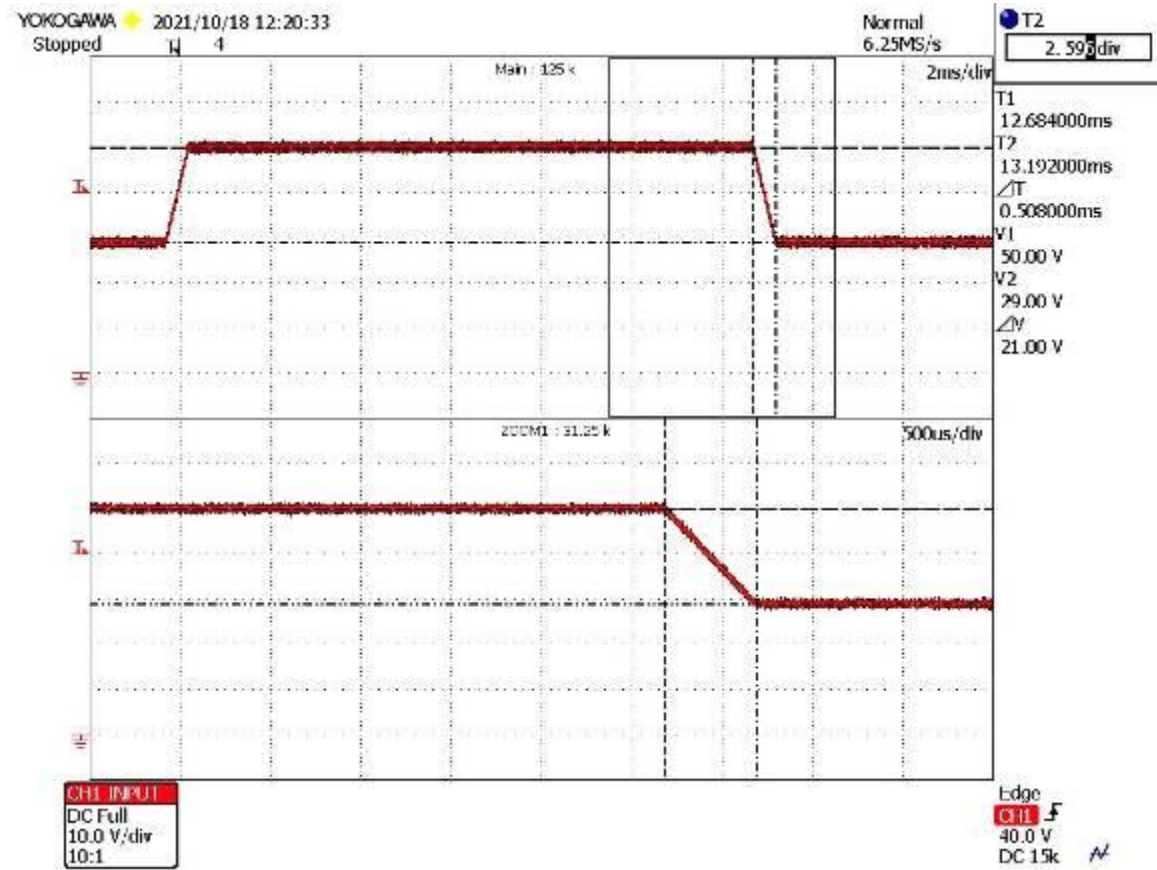


Figure E-4: LDC105, Condition AA, waveform verification, fall time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

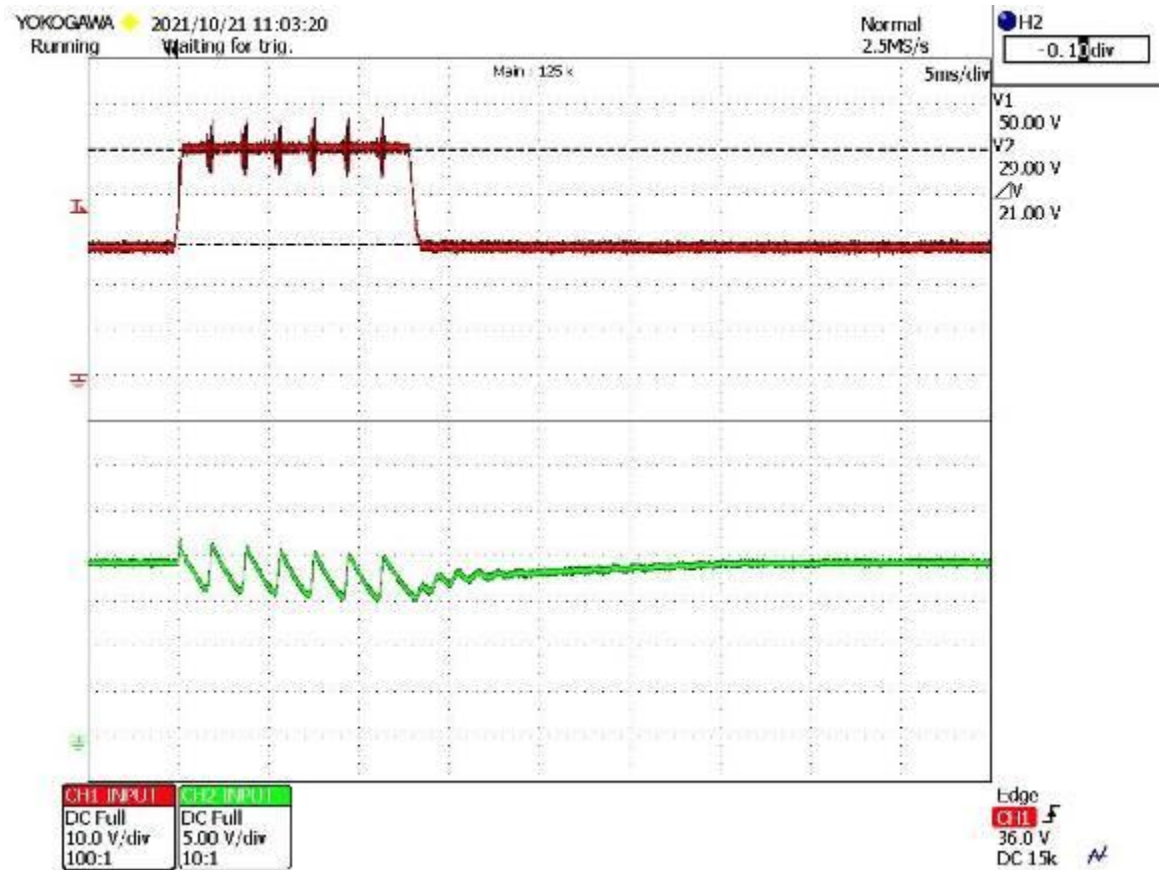


Figure E-5: LDC105, Condition AA, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

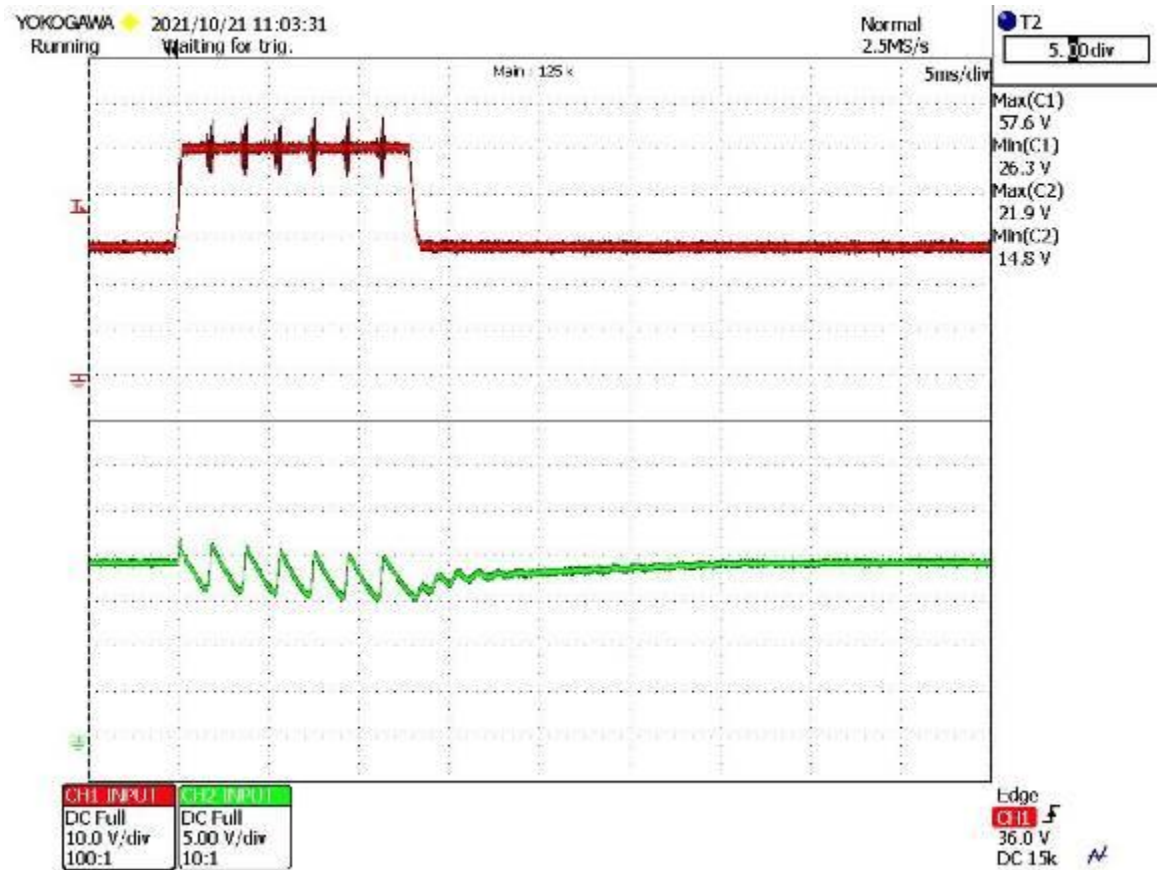


Figure E-6: LDC105, Condition AA, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

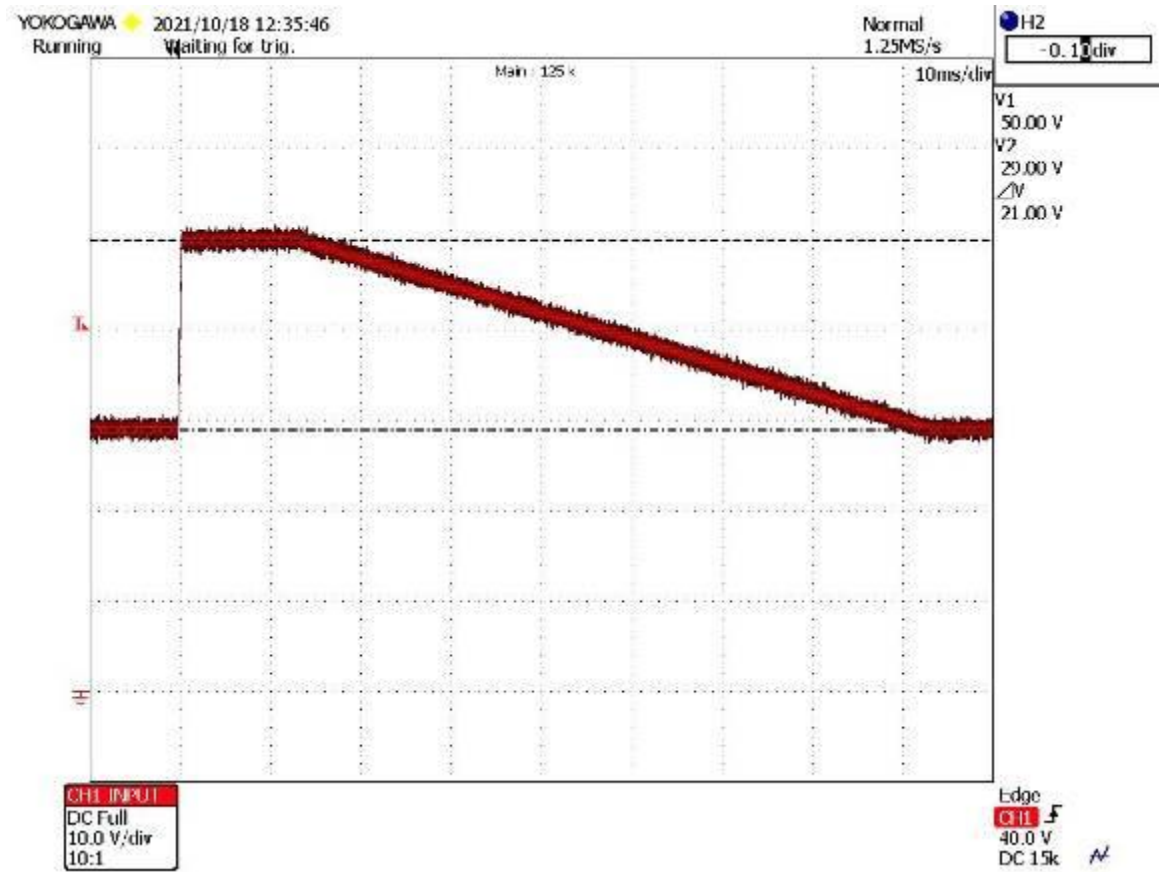


Figure E-7: LDC105, Condition BB, waveform verification, steady state voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

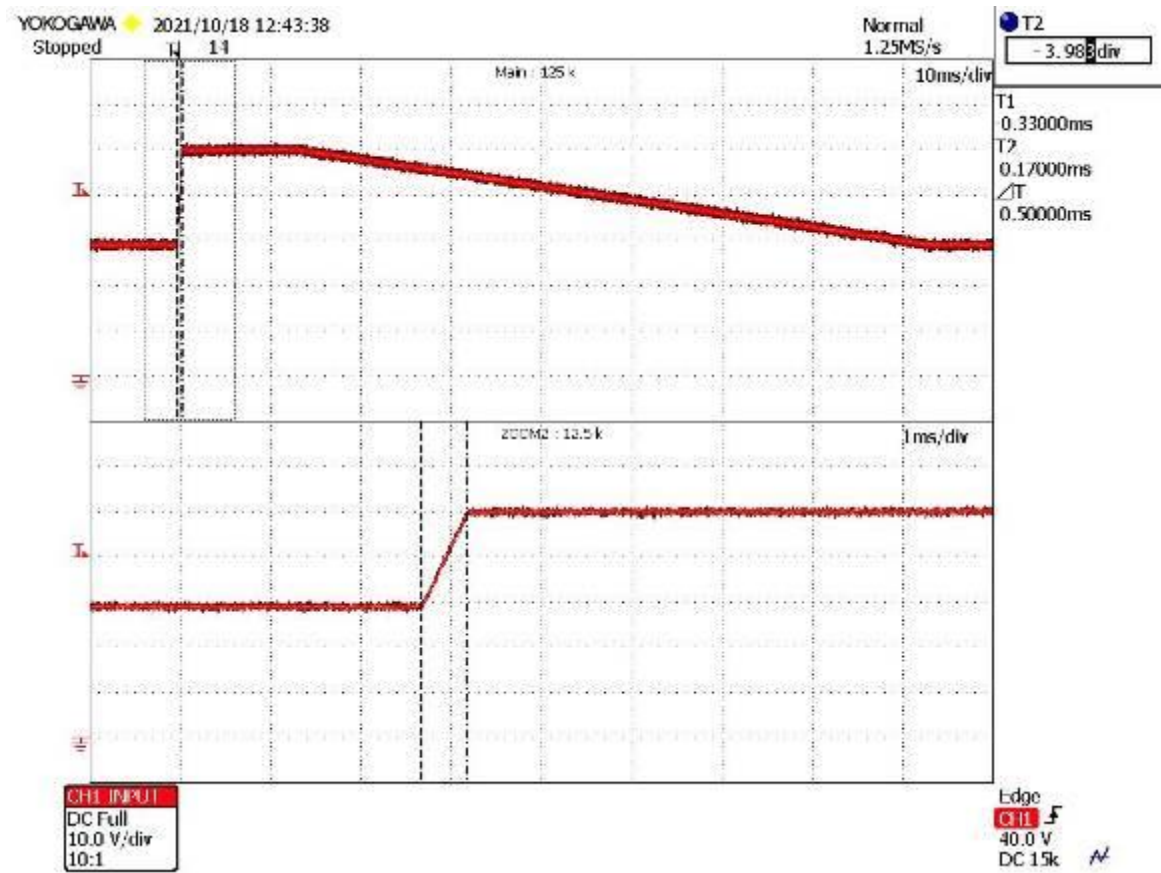


Figure E-8: LDC105, Condition BB, waveform verification, rise time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

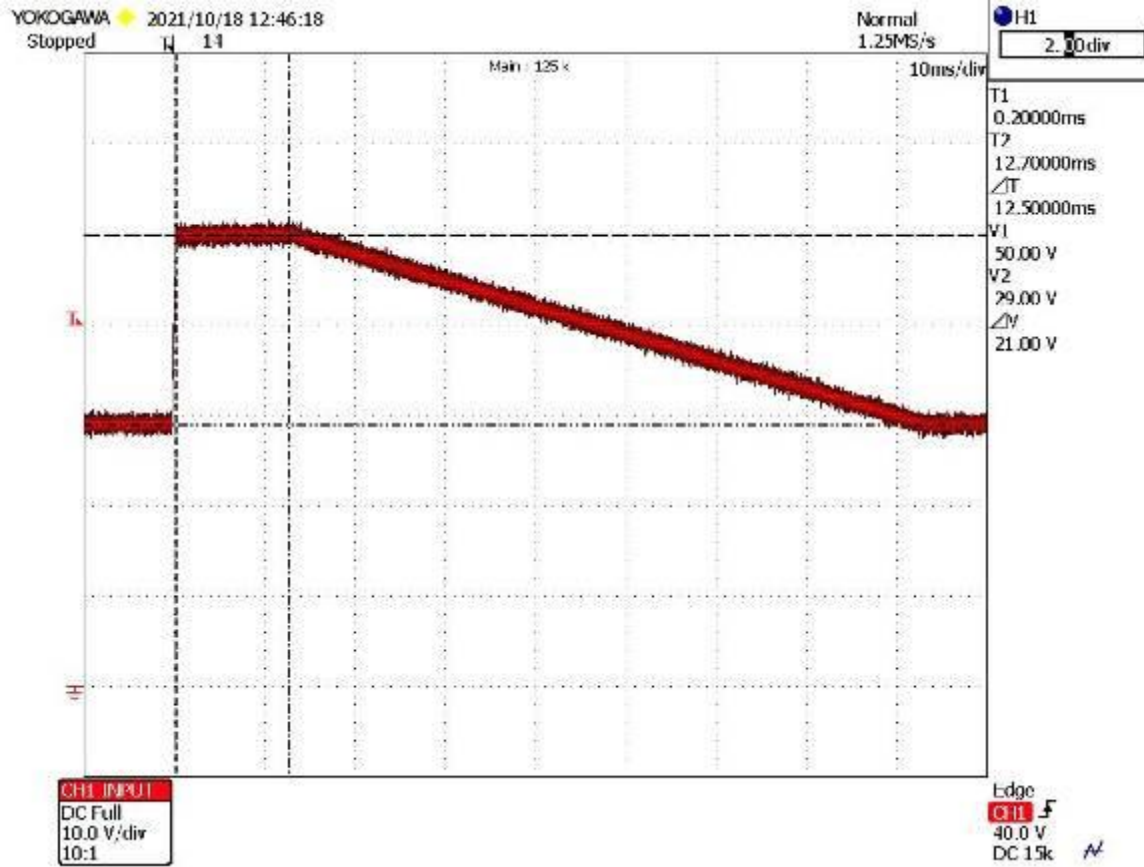


Figure E-9: LDC105, Condition BB, waveform verification, transient level duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

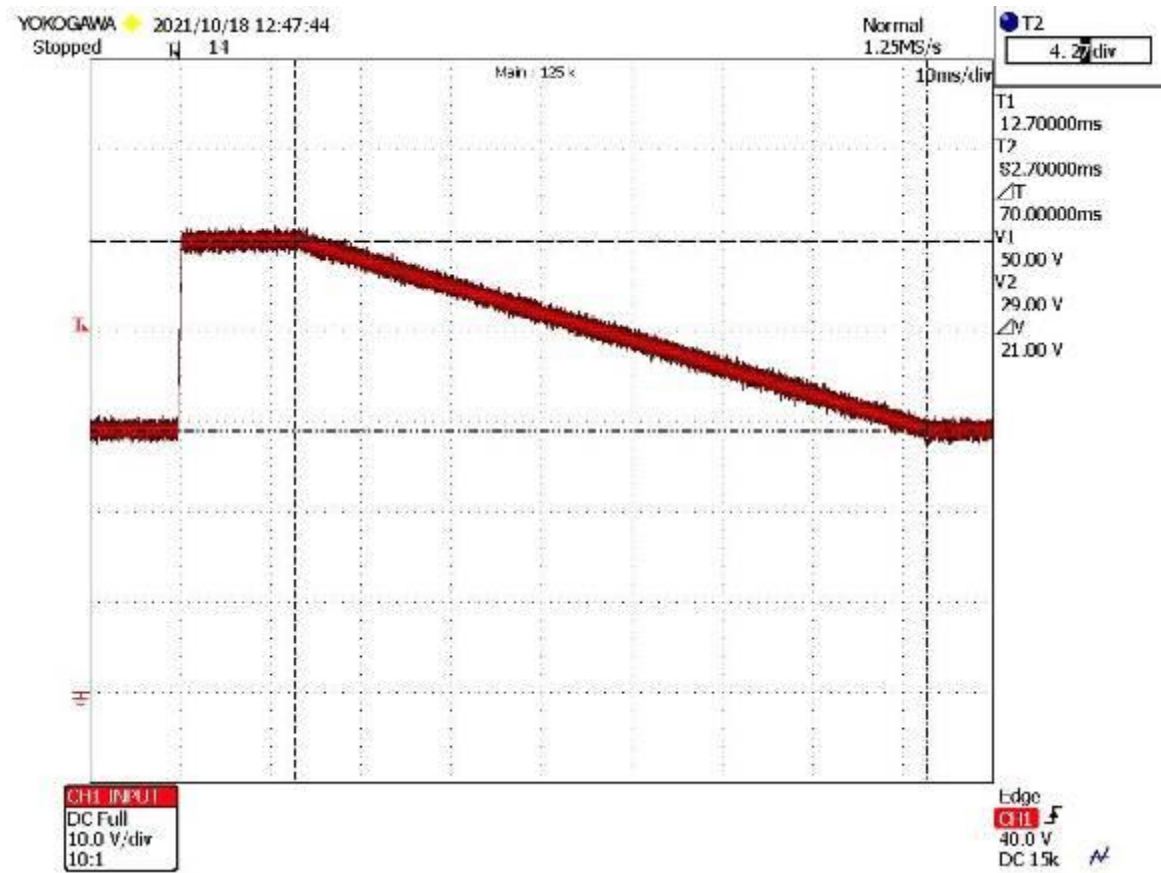


Figure E-10: LDC105, Condition BB, waveform verification, fall time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

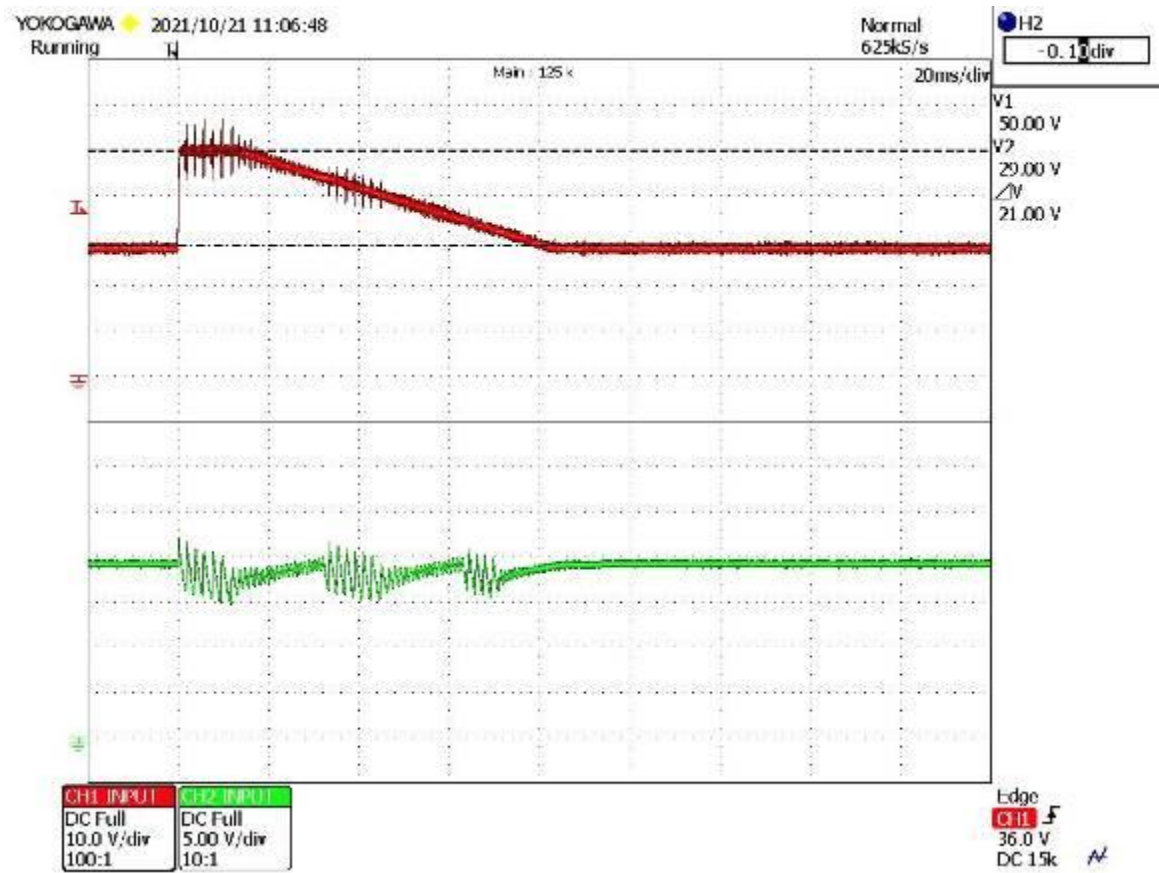


Figure E-11: LDC105, Condition BB, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

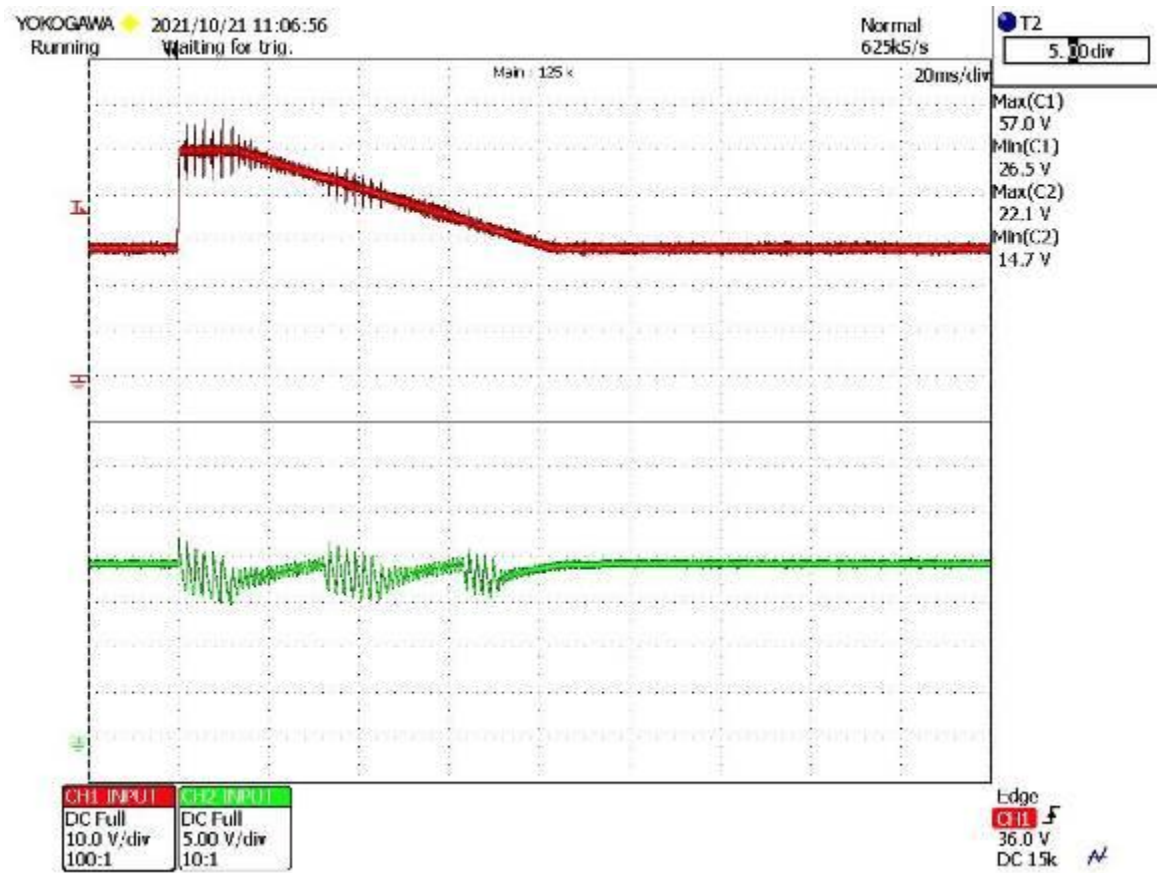


Figure E-12: LDC105, Condition BB, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

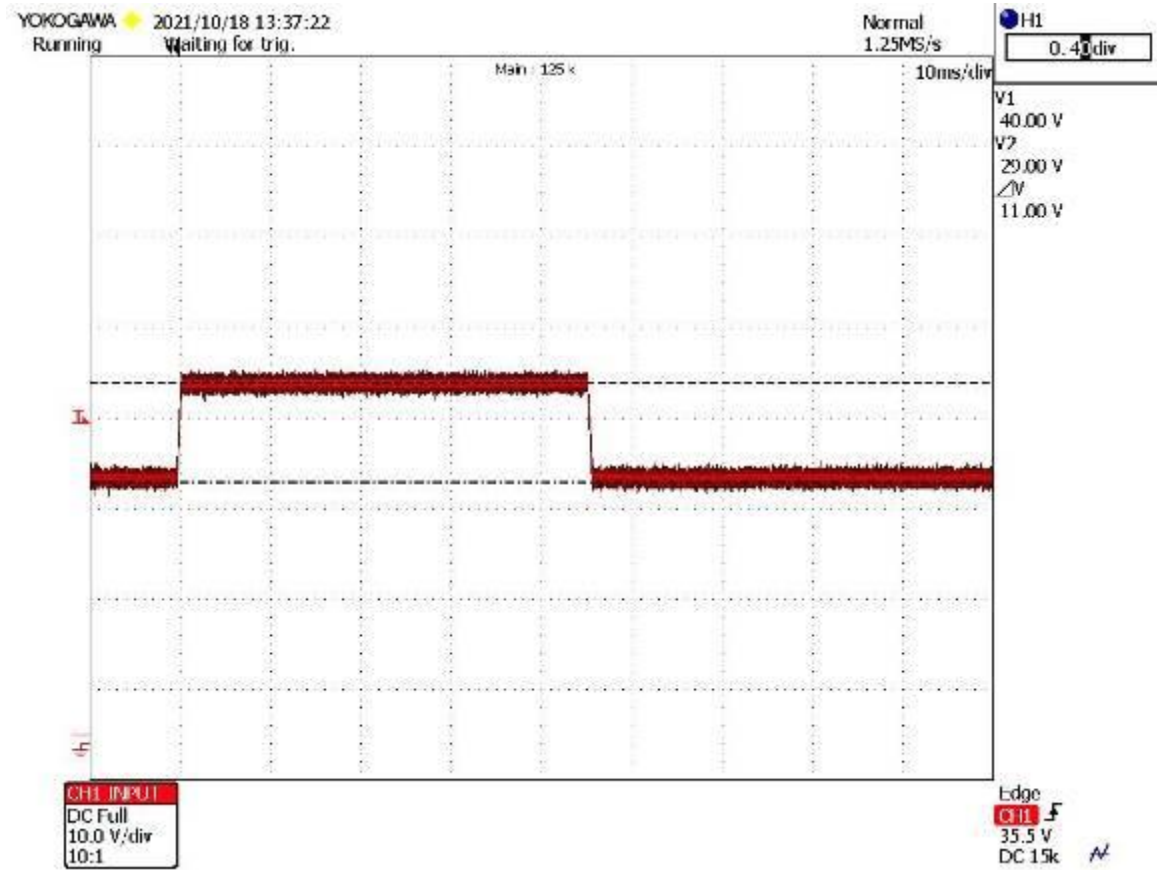


Figure E-13: LDC105, Condition CC, waveform verification, steady state voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

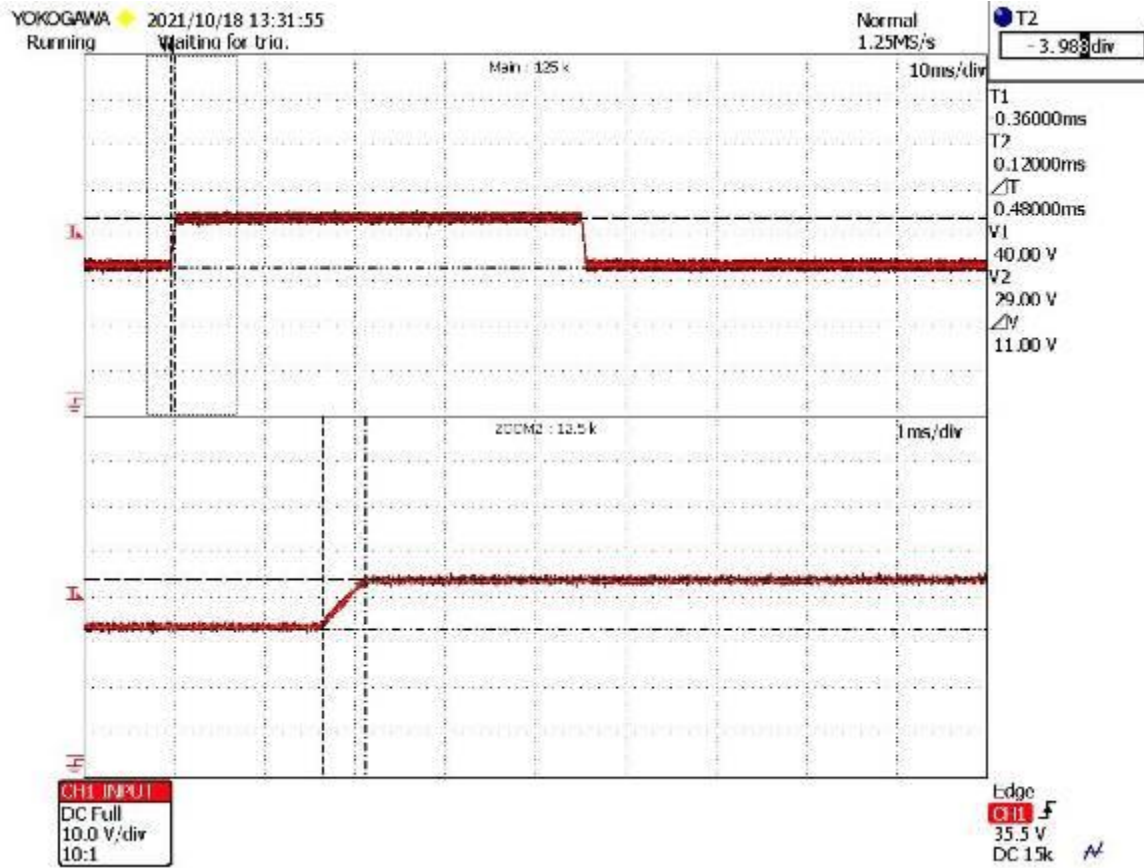


Figure E-14: LDC105, Condition CC, waveform verification, rise time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

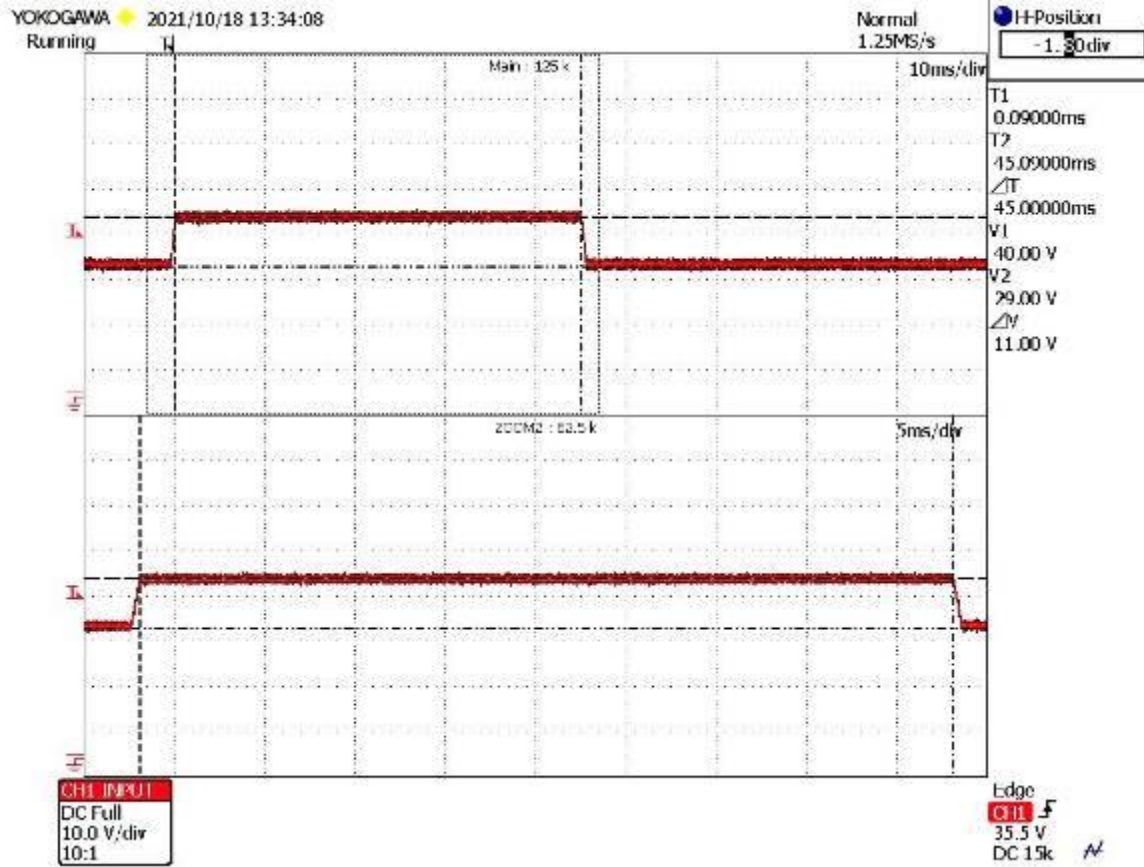
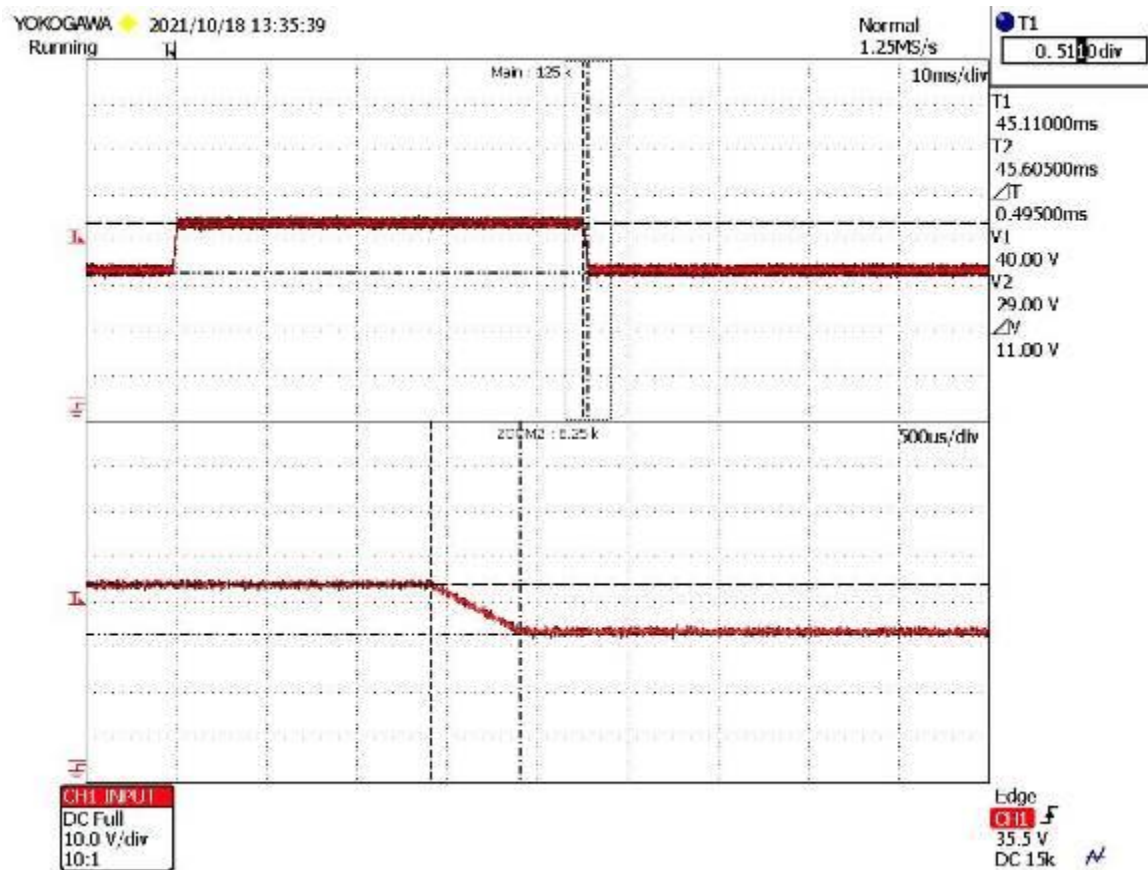


Figure E-15: LDC105, Condition CC, waveform verification, transient level duration

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

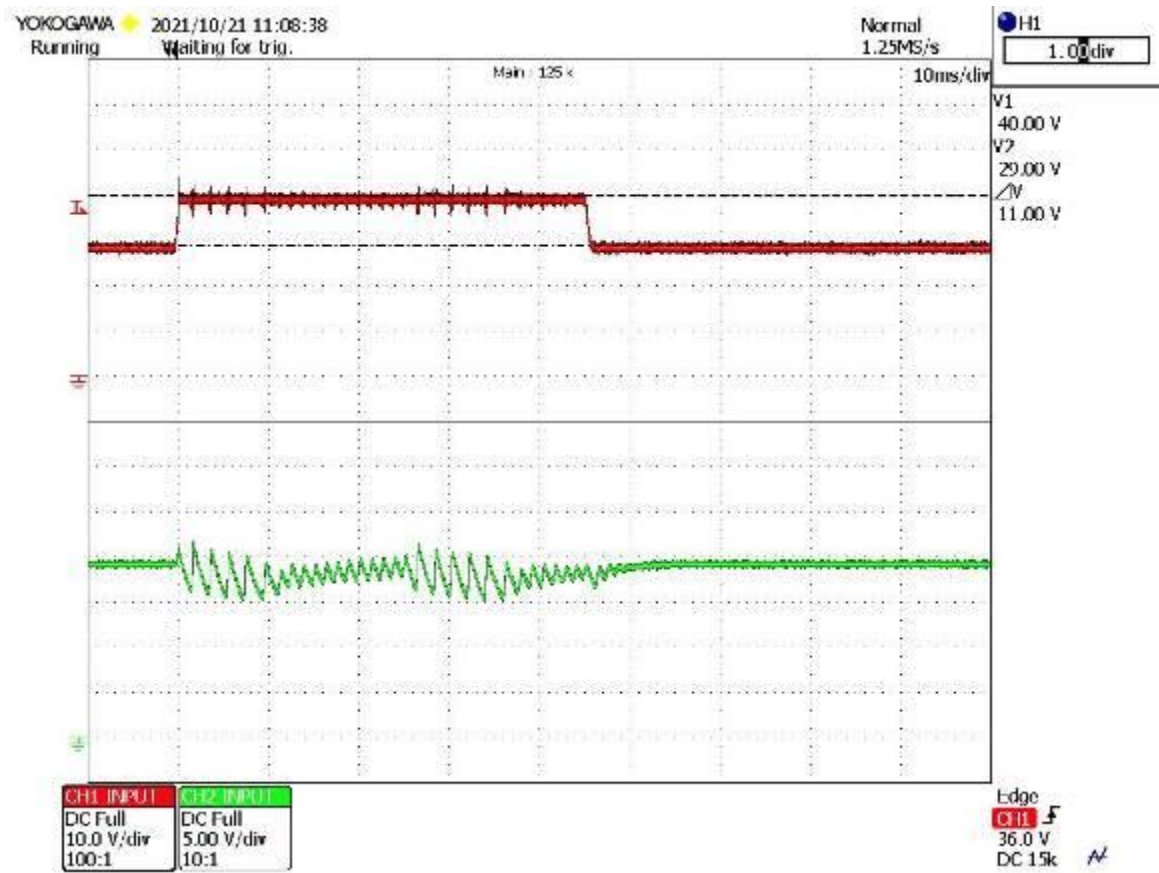


Figure E-17: LDC105, Condition CC, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

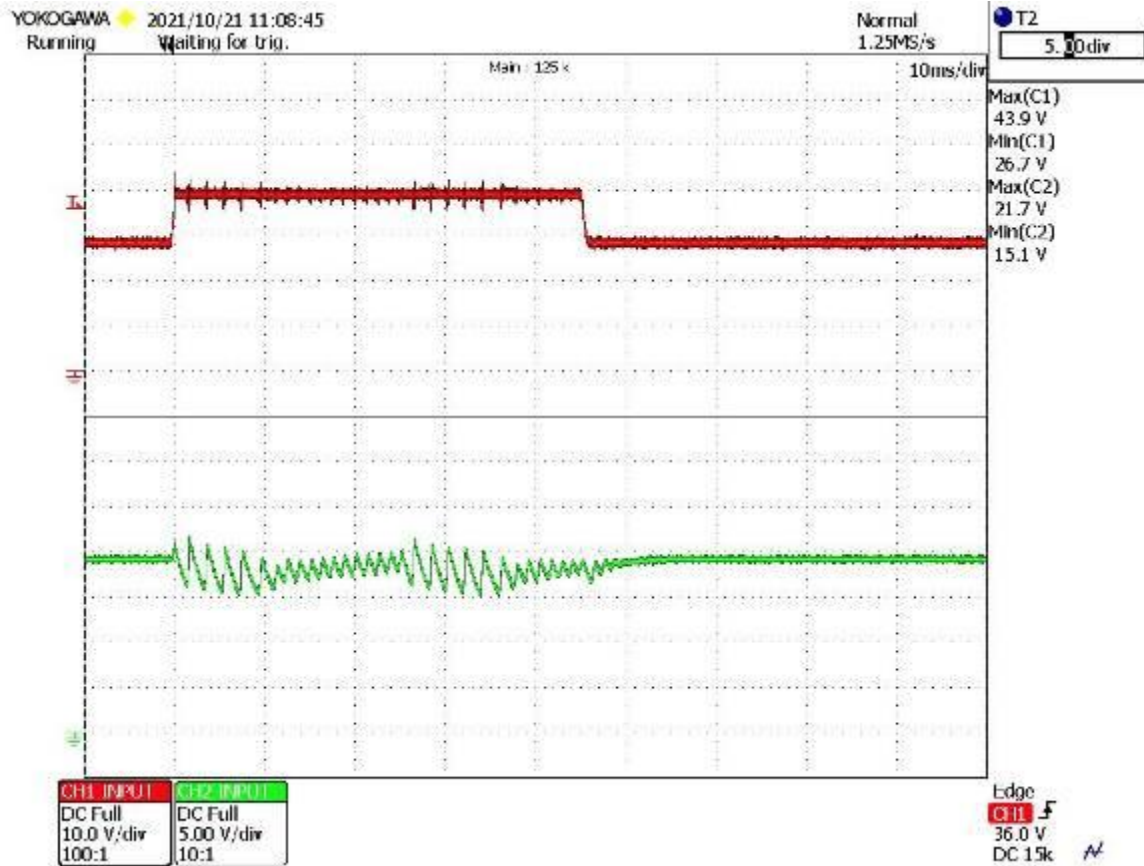


Figure E-18: LDC105, Condition CC, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

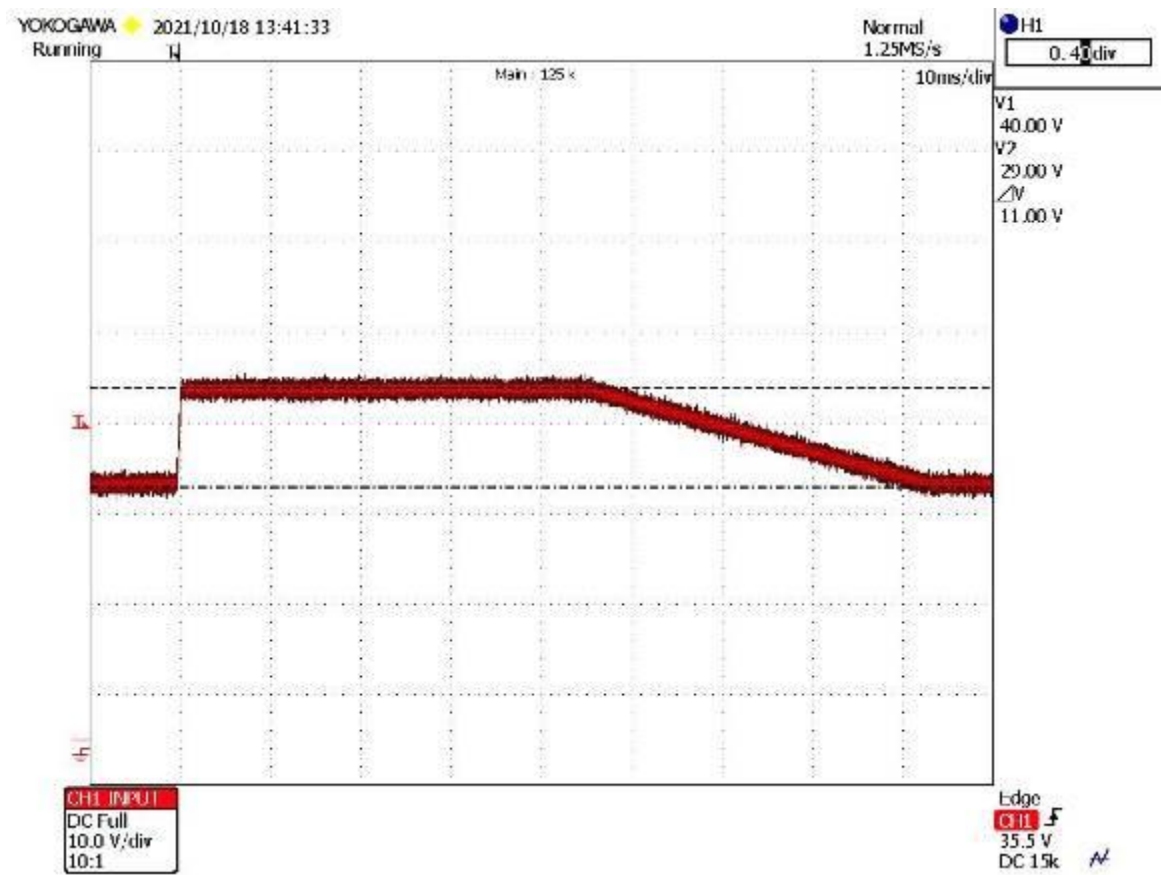


Figure E-19: LDC105, Condition DD, waveform verification, steady state voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

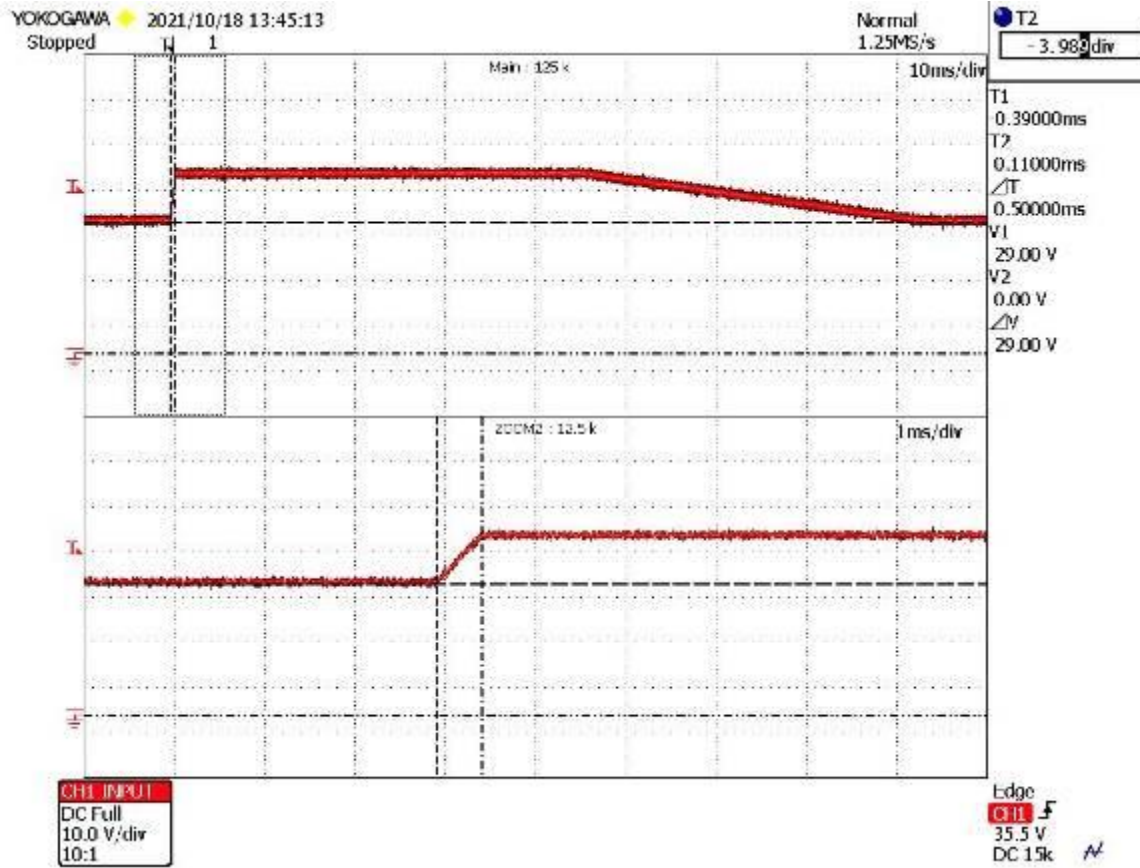


Figure E-20: LDC105, Condition DD, waveform verification, rise time and transient level voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

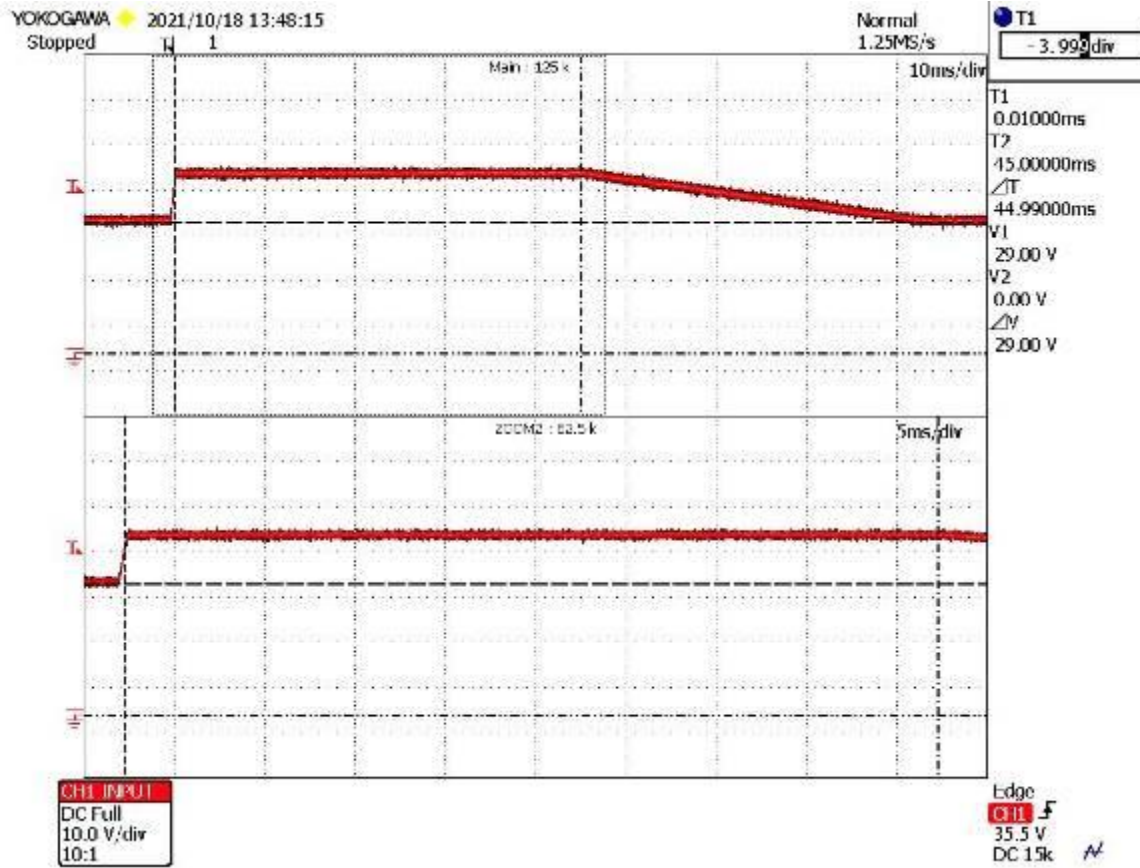


Figure E-21: LDC105, Condition DD, waveform verification, transient level duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

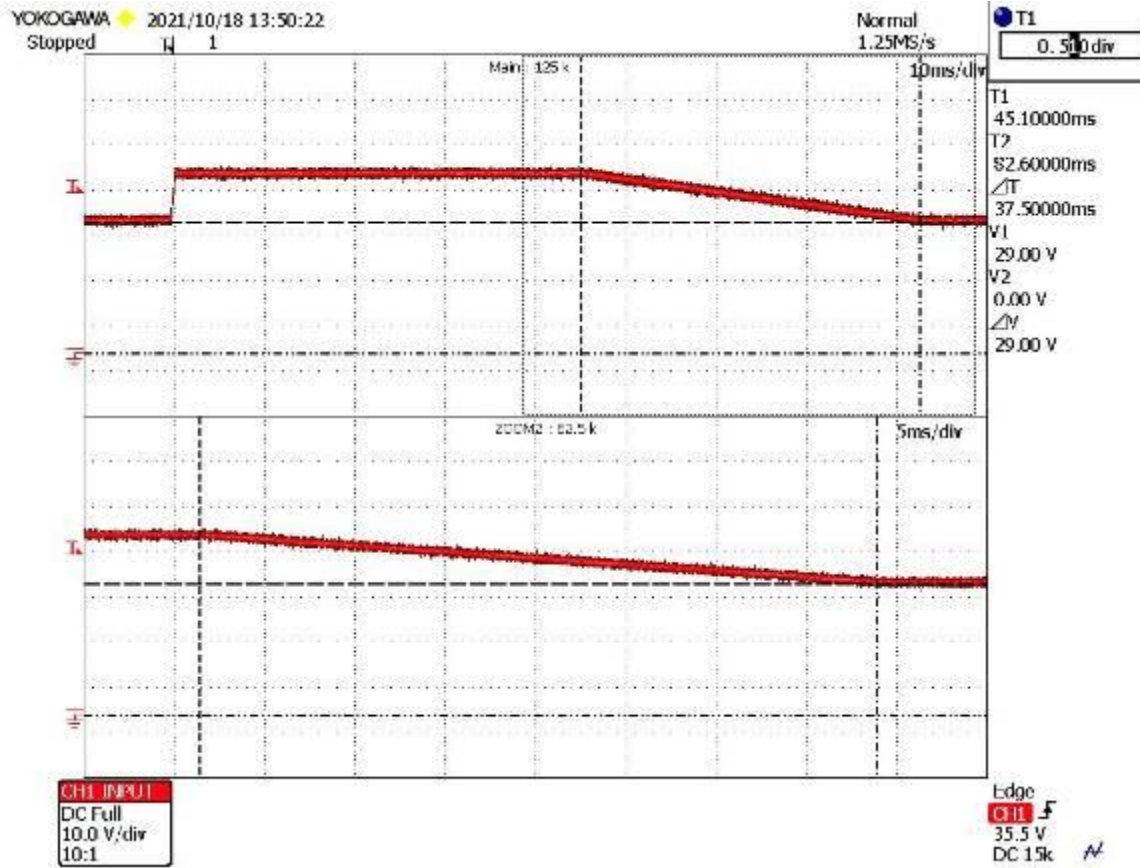


Figure E-22: LDC105, Condition DD, waveform verification, fall time and steady state voltage

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

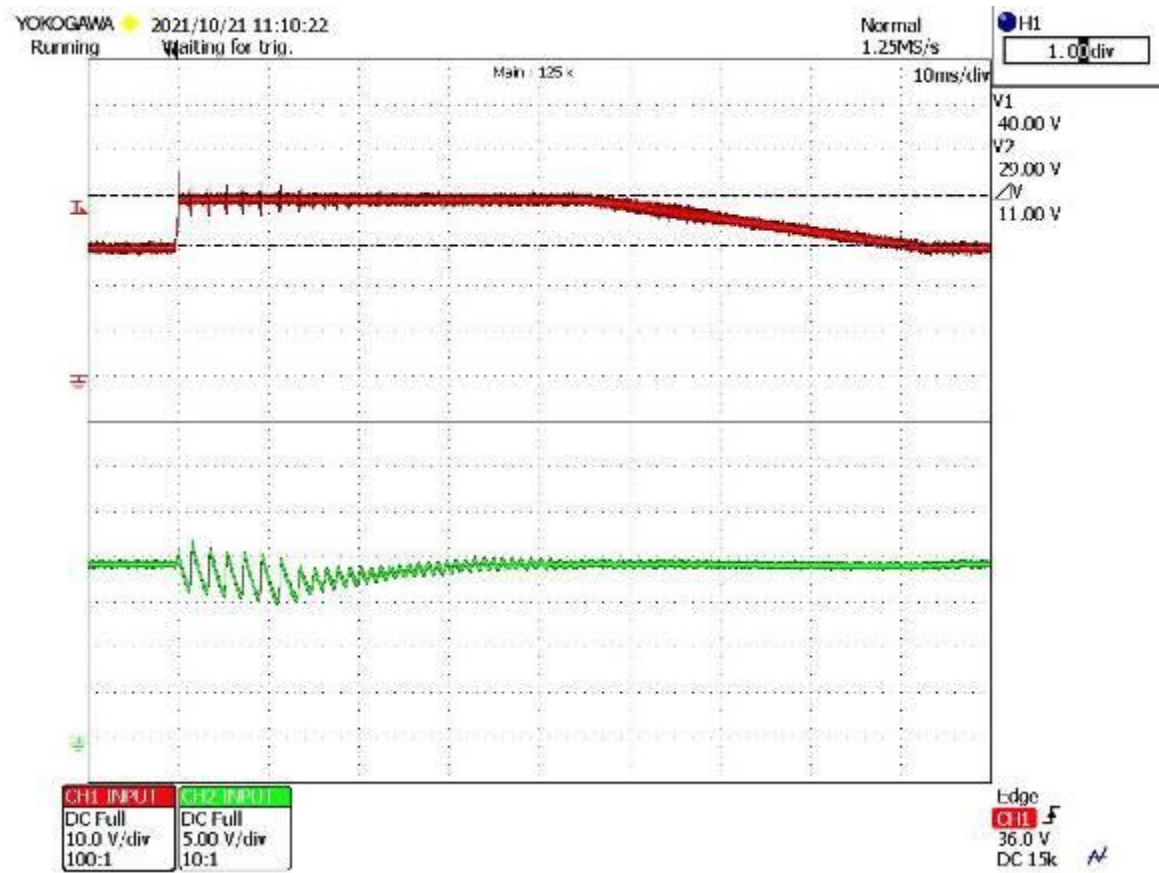


Figure E-23: LDC105, Condition DD, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

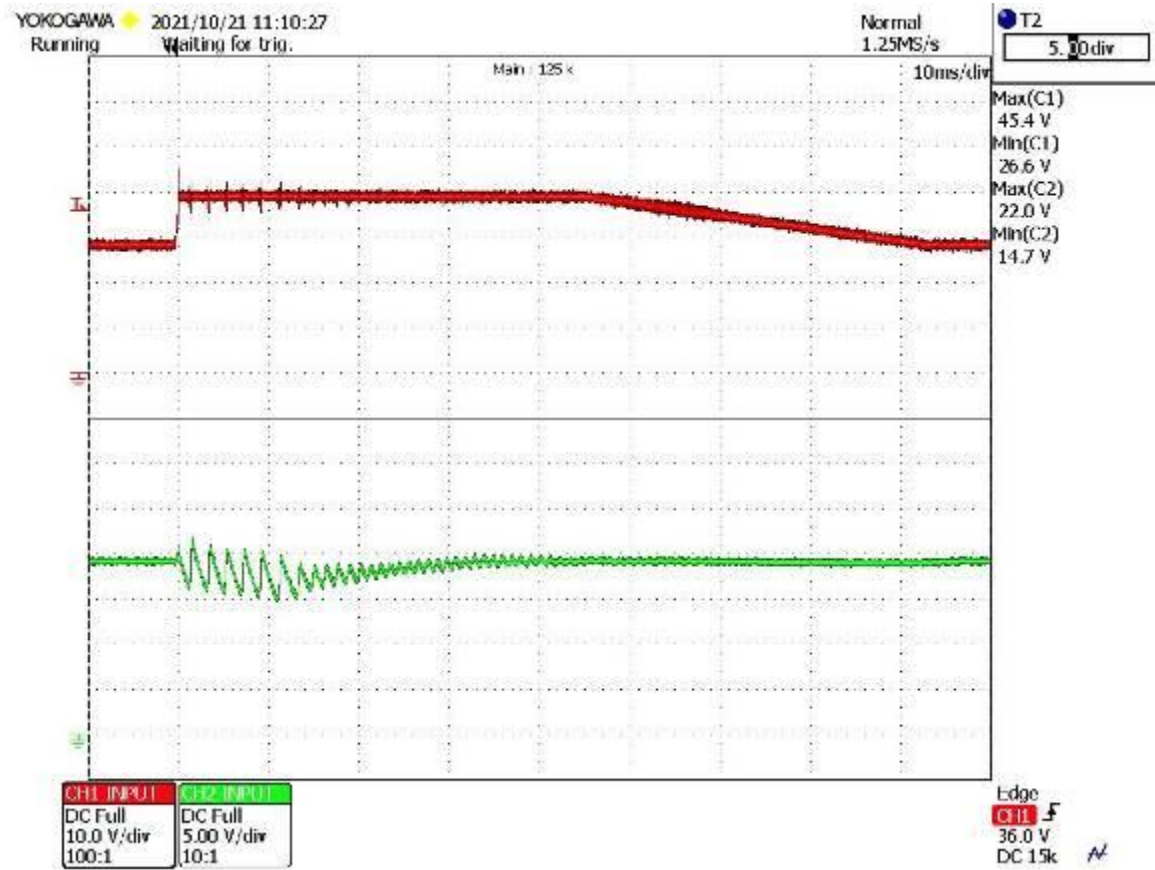
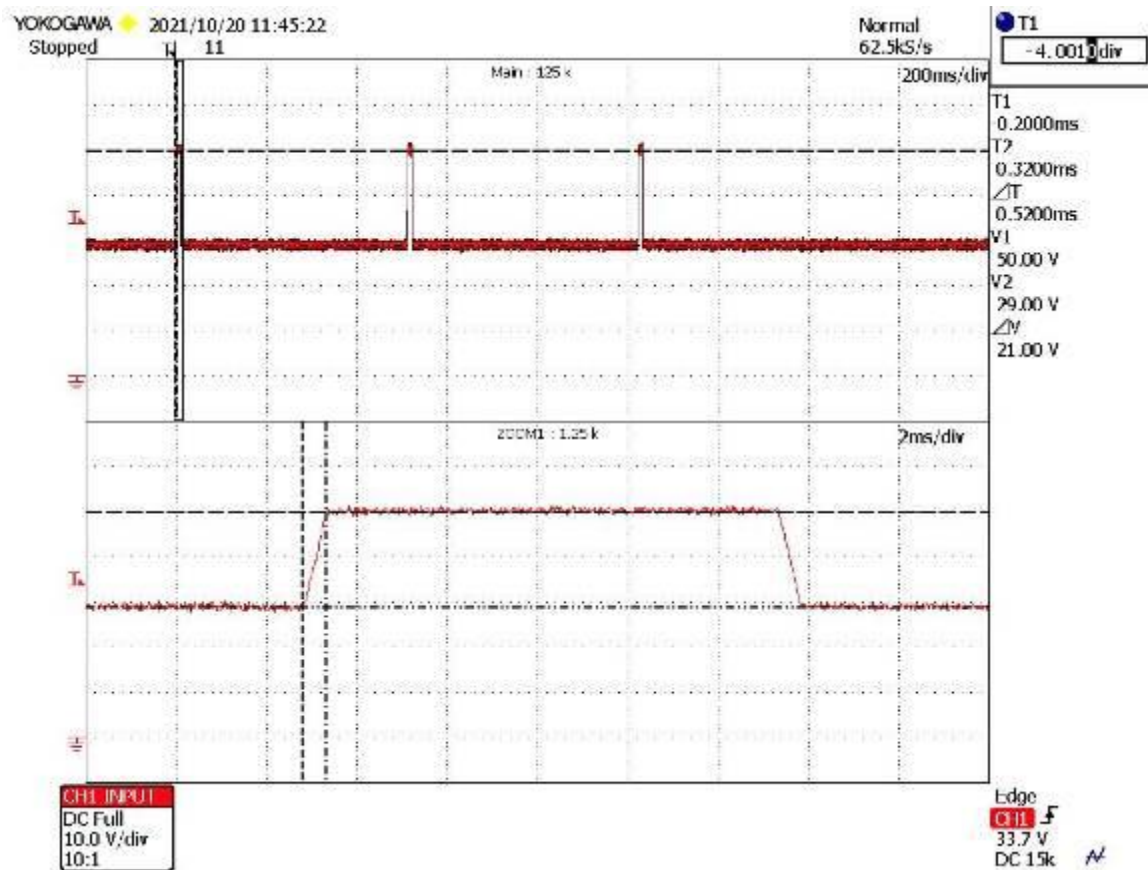


Figure E-24: LDC105, Condition DD, , test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

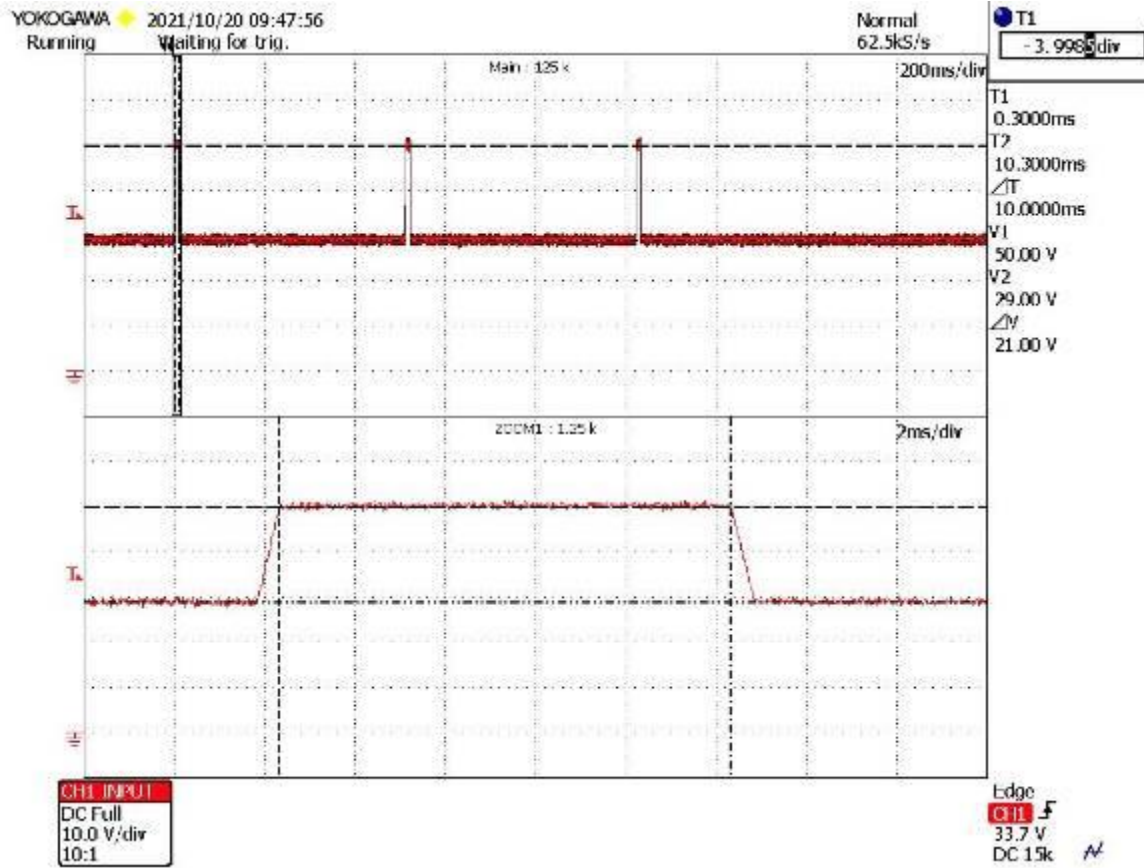


Figure E-26: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

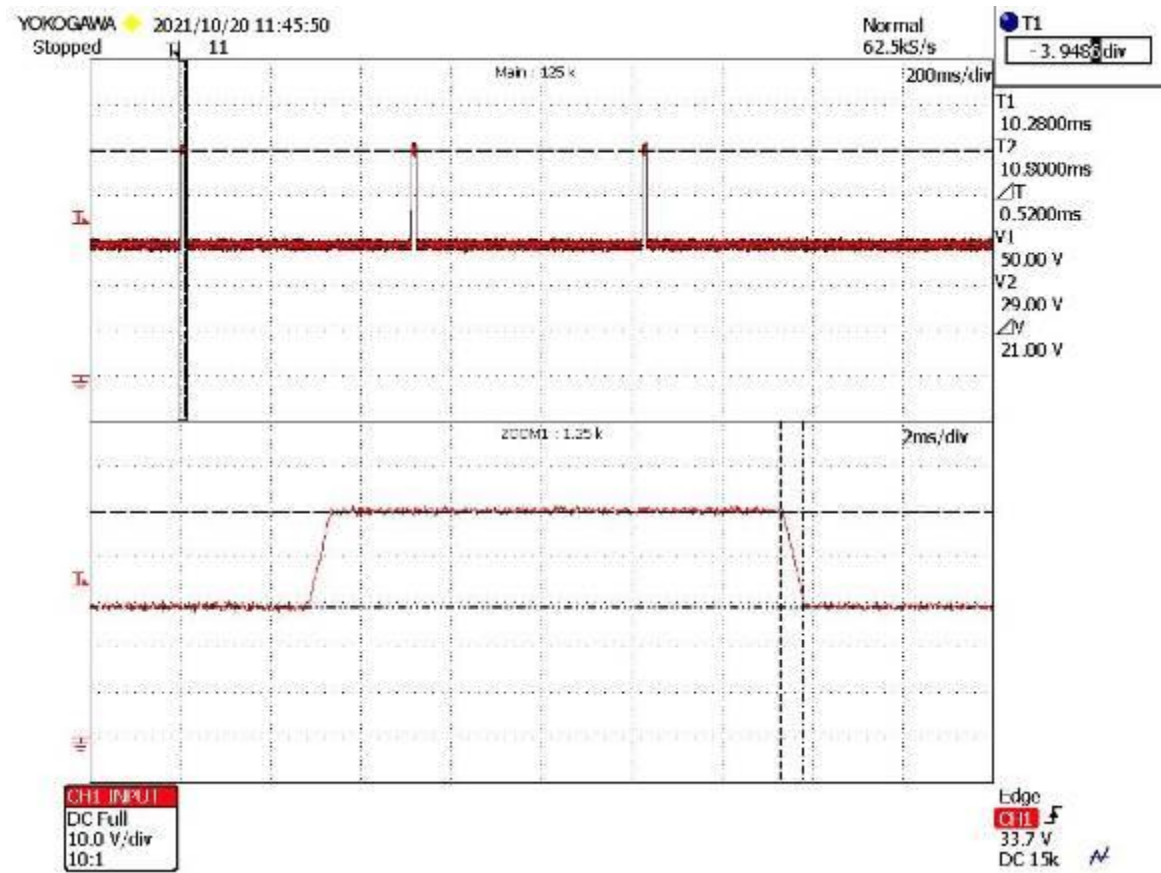


Figure E-27: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

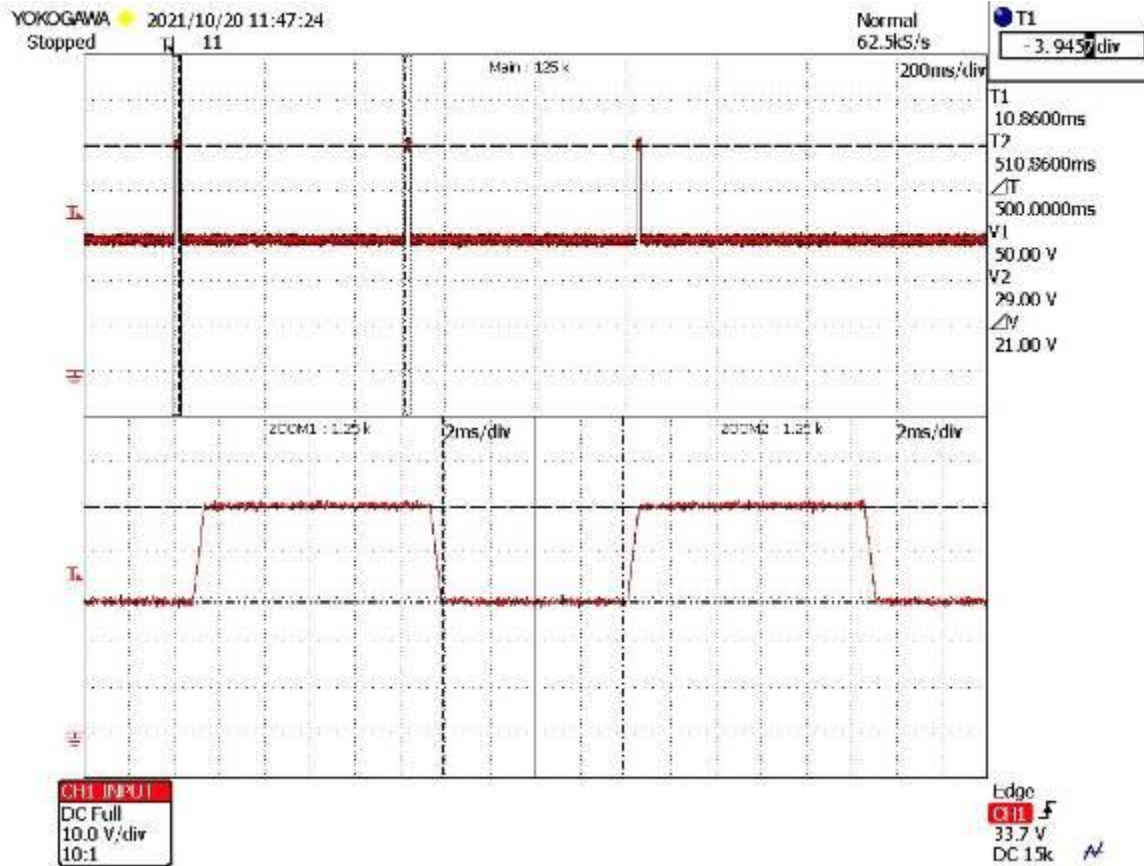


Figure E-28: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, delay time from first transient to second transient

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

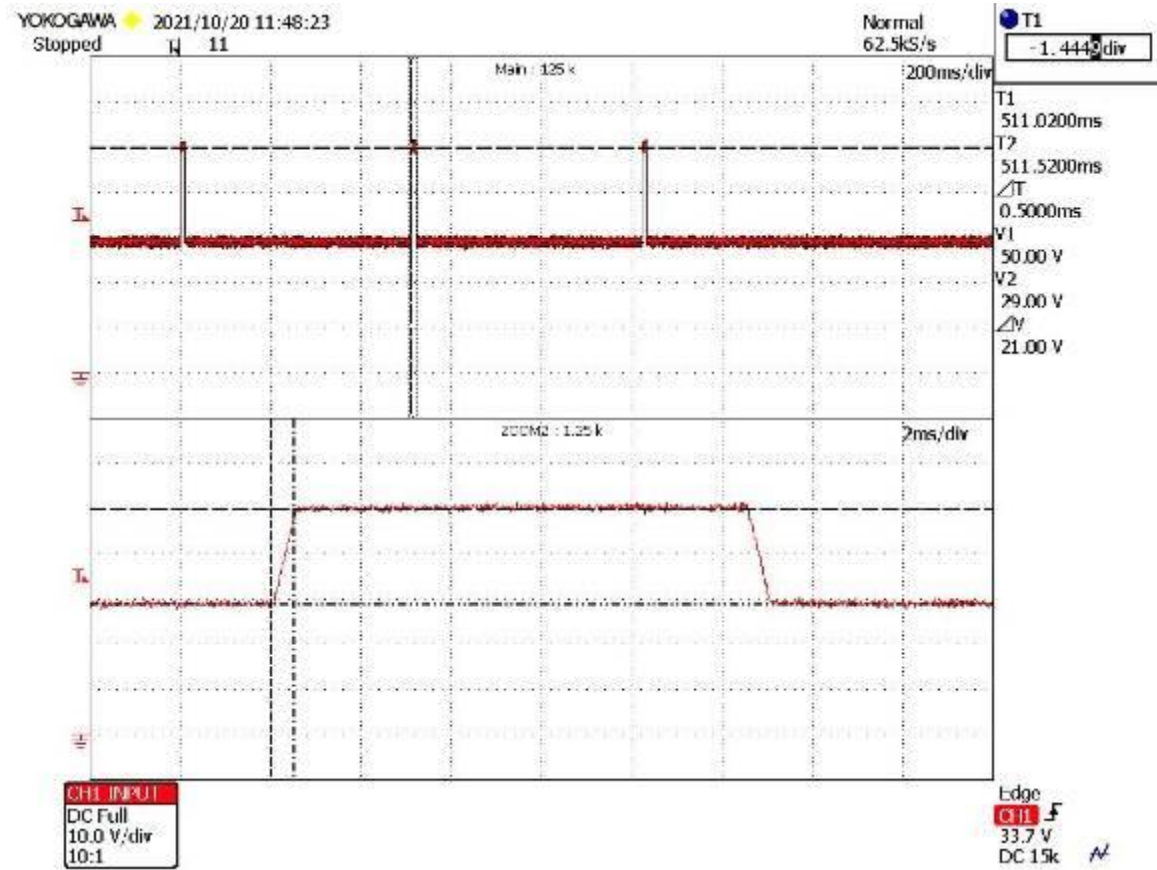
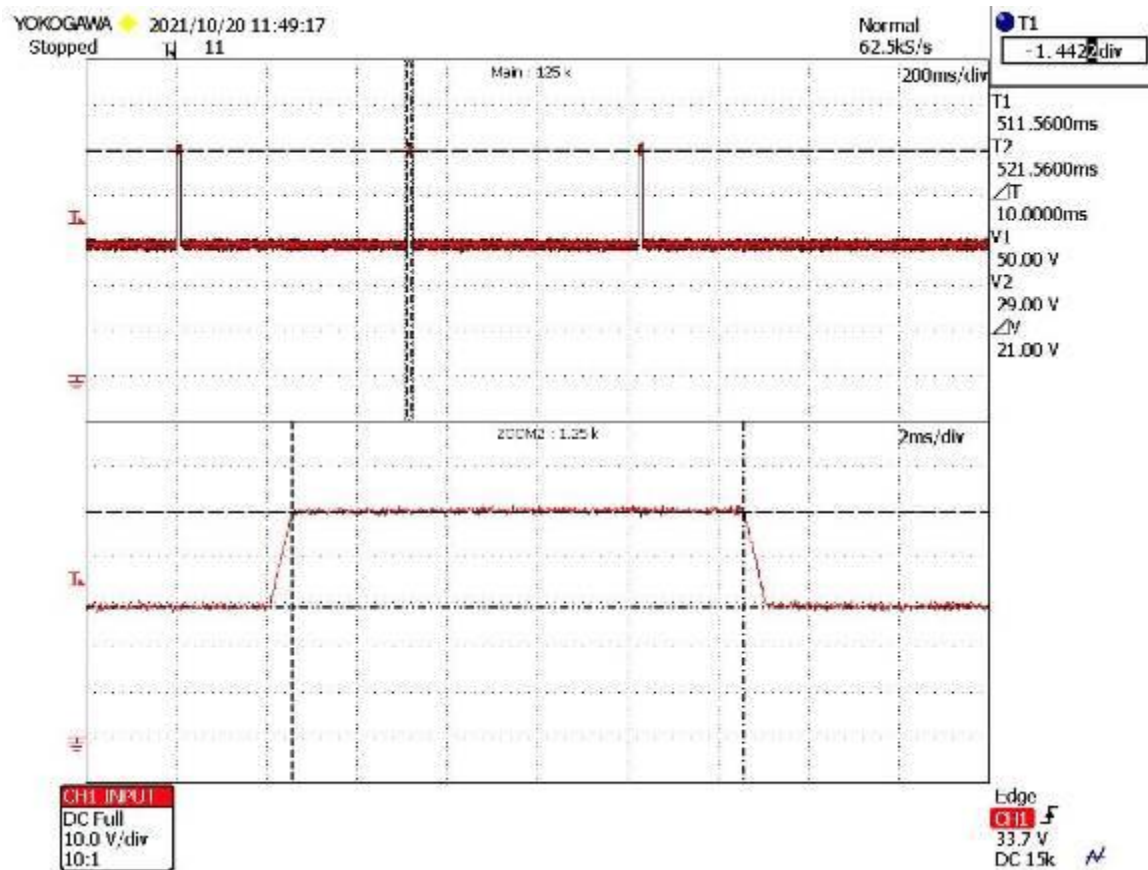


Figure E-29: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, second transient rise time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

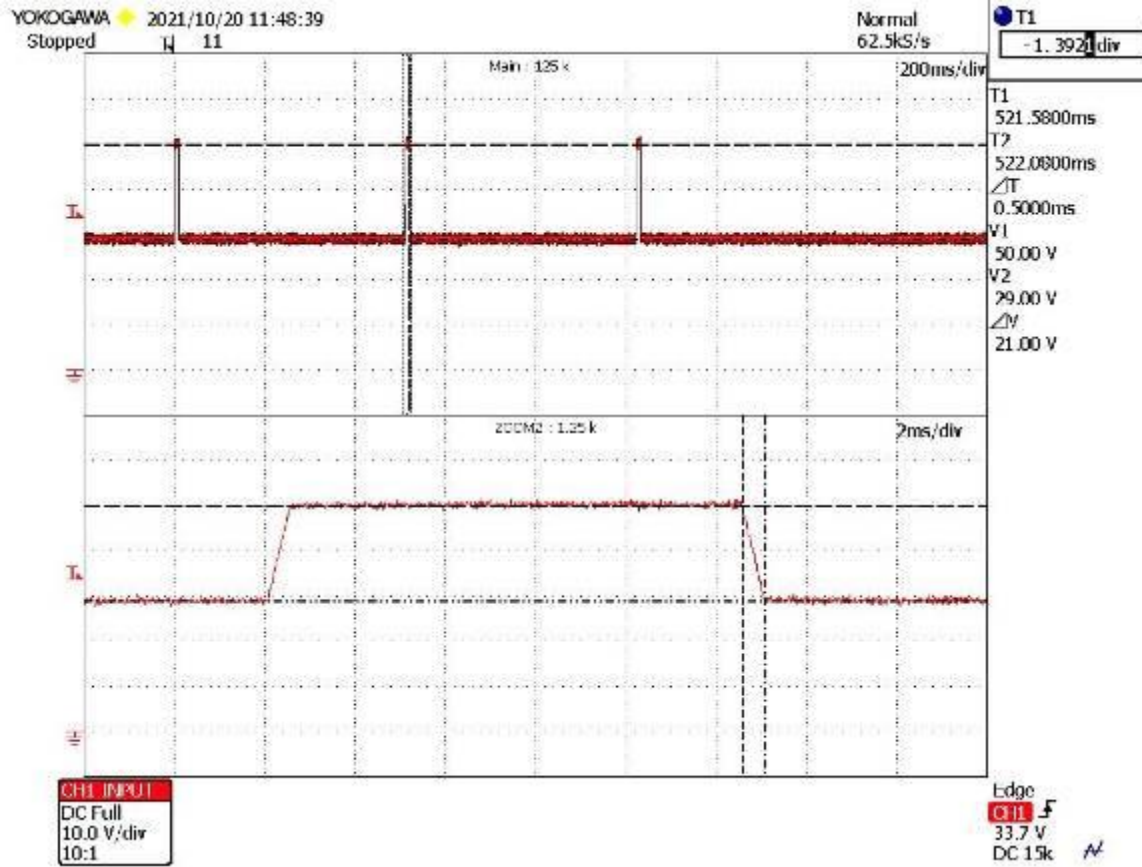
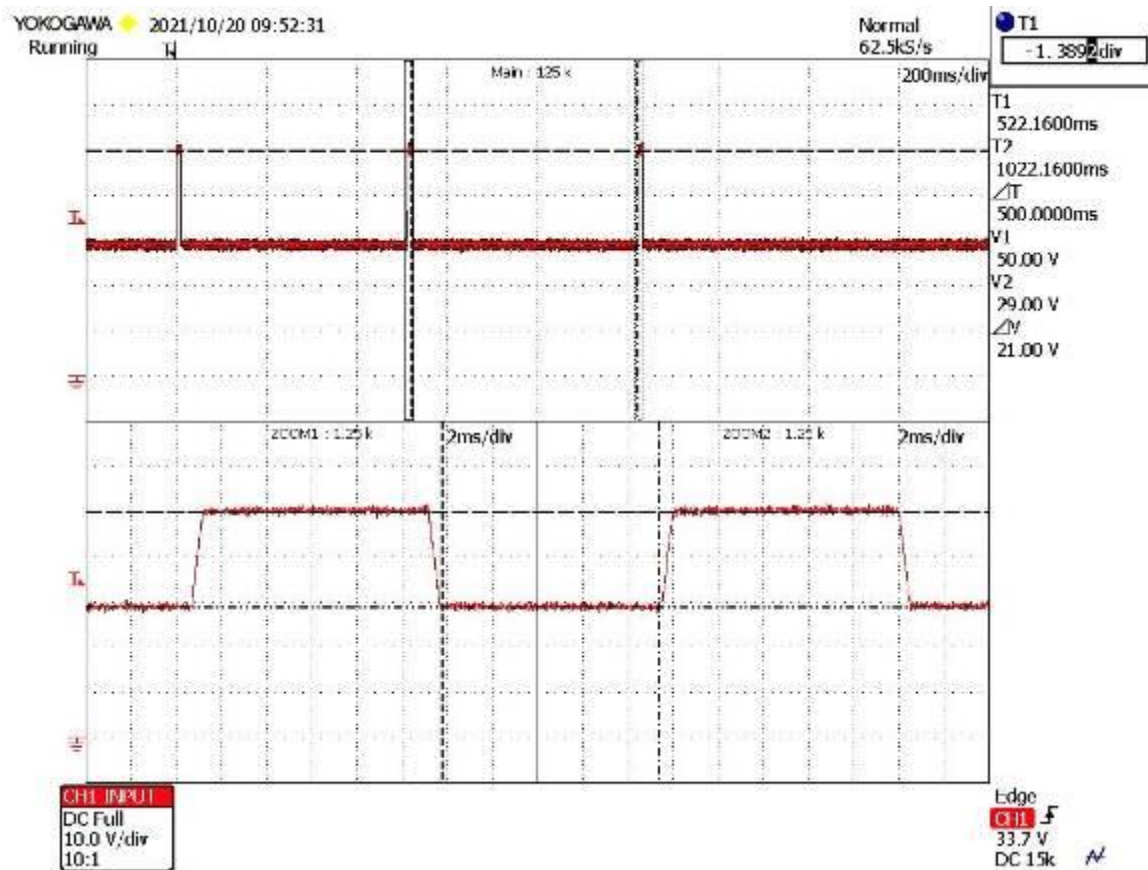


Figure E-31: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, second transient fall time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

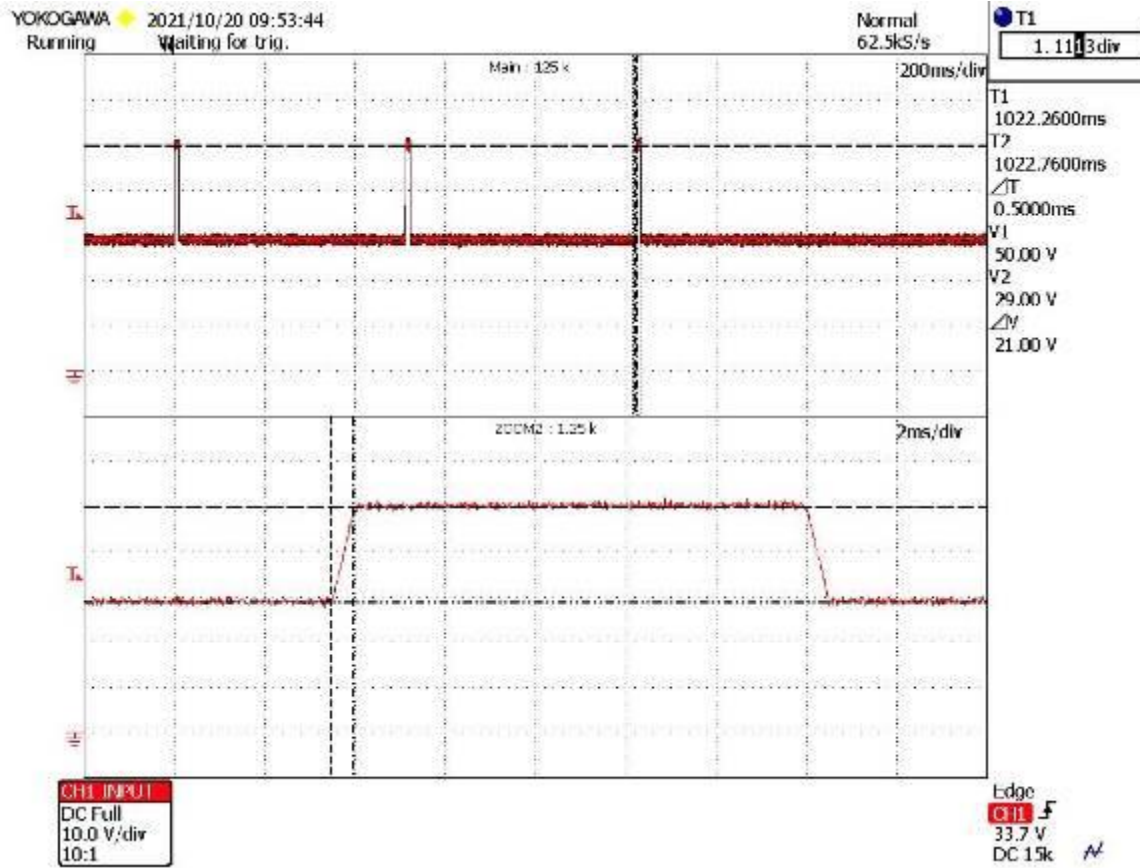


Figure E-33: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, third transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

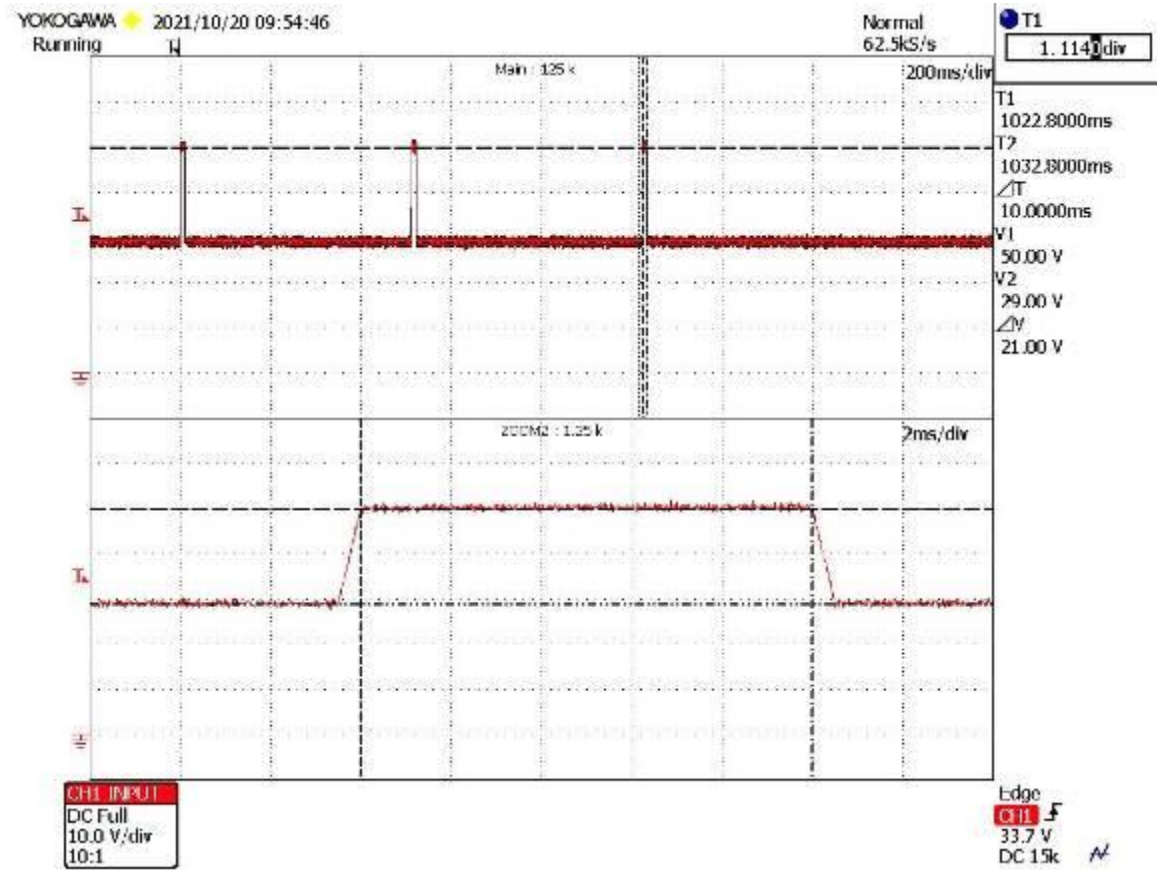


Figure E-34: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, third transient duration

Red trace = input voltage

Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

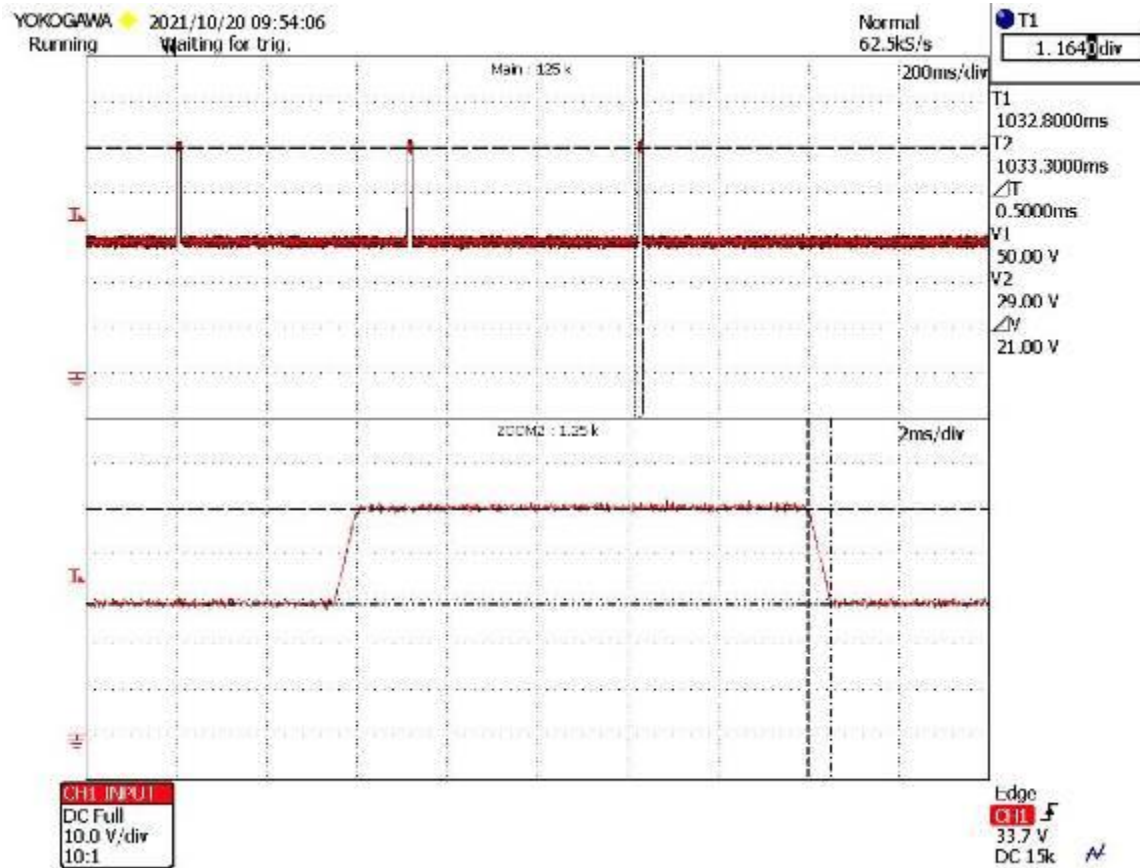


Figure E-35: LDC105, Condition EE, 3 times every 0.5 sec, waveform verification, third transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

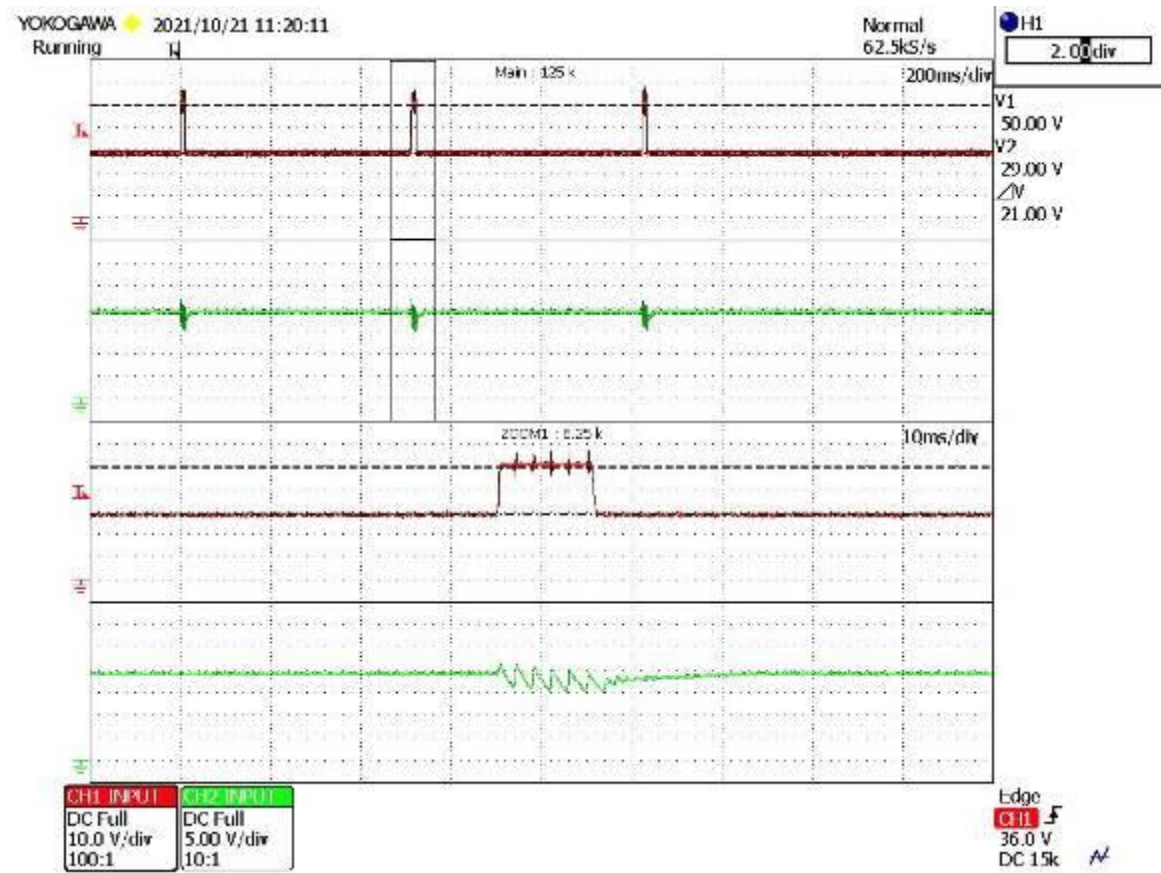


Figure E-36: LDC105, Condition EE, 3 times every 0.5 sec, test application with cursor amplitude measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

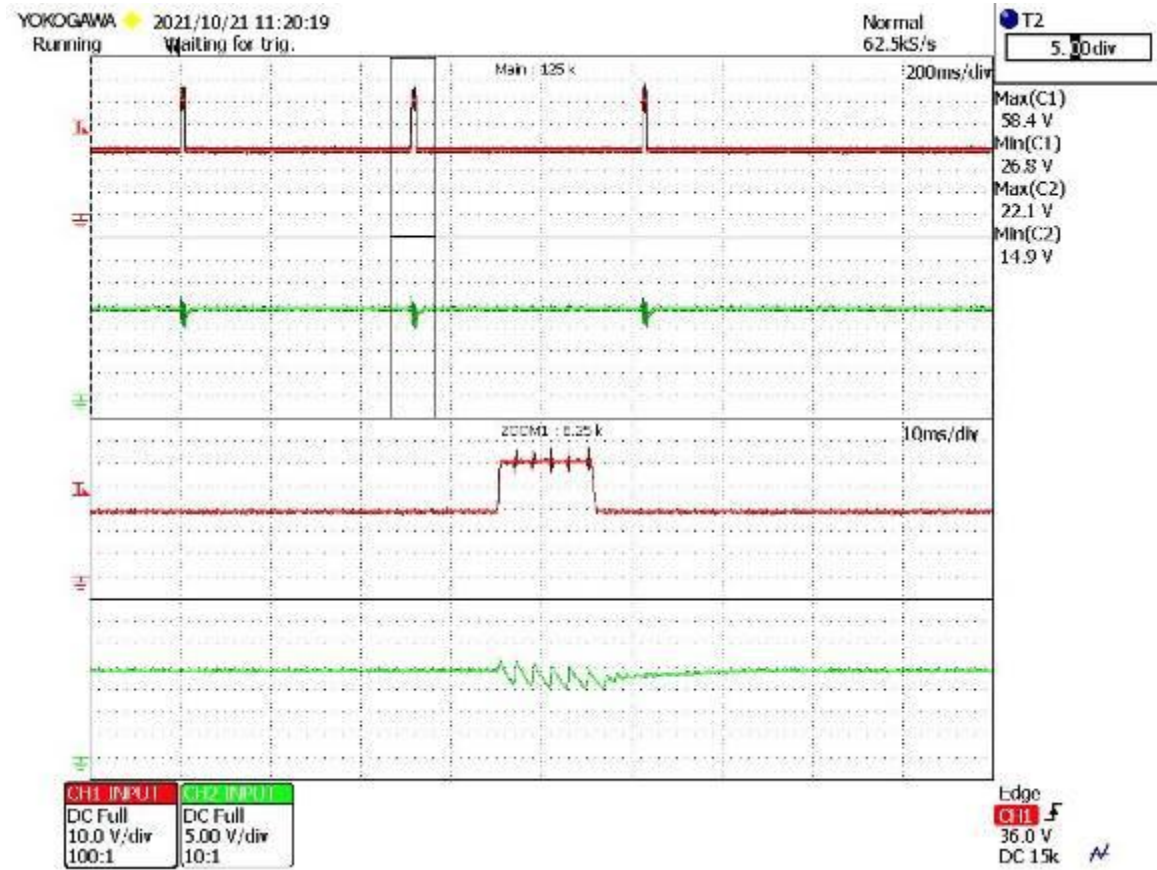


Figure E-37: LDC105, Condition EE, 3 times every 0.5 sec, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

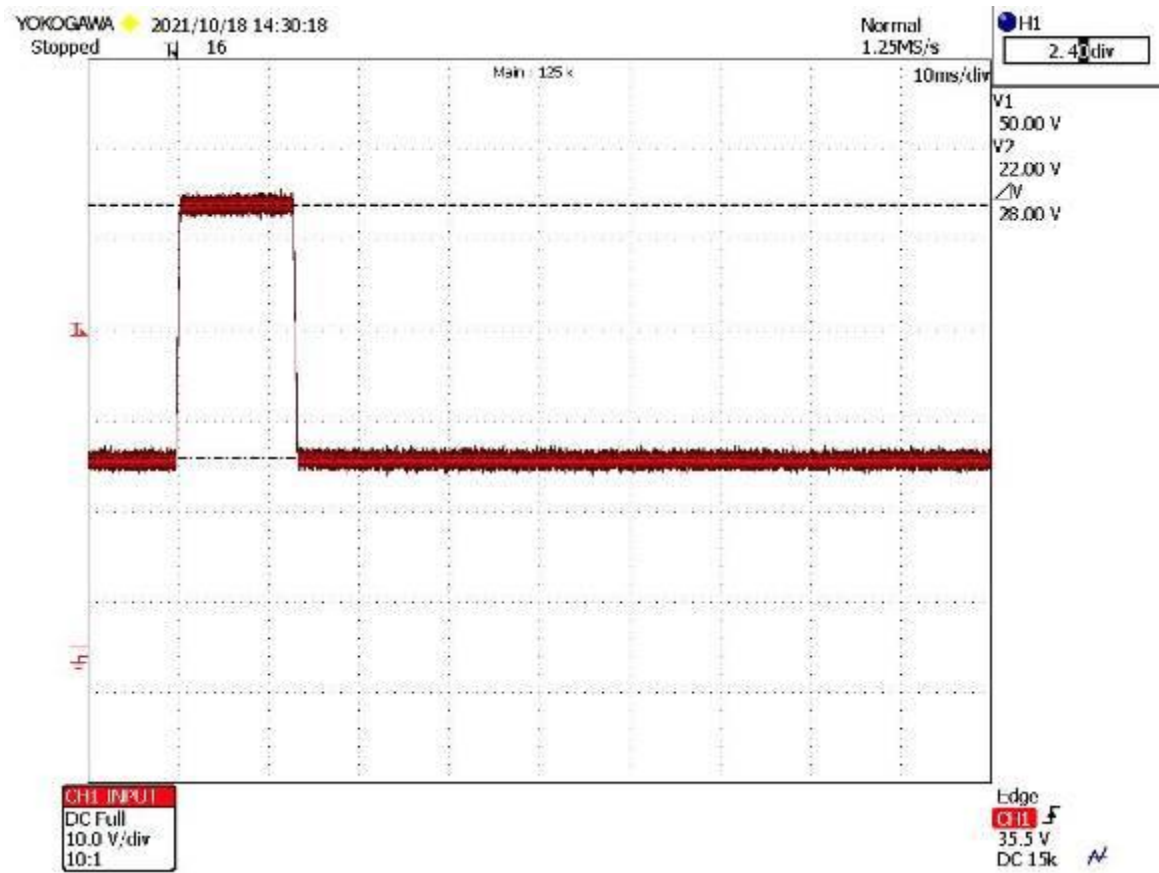


Figure E-38: LDC105, Condition FF, waveform verification, steady state and transient verification

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

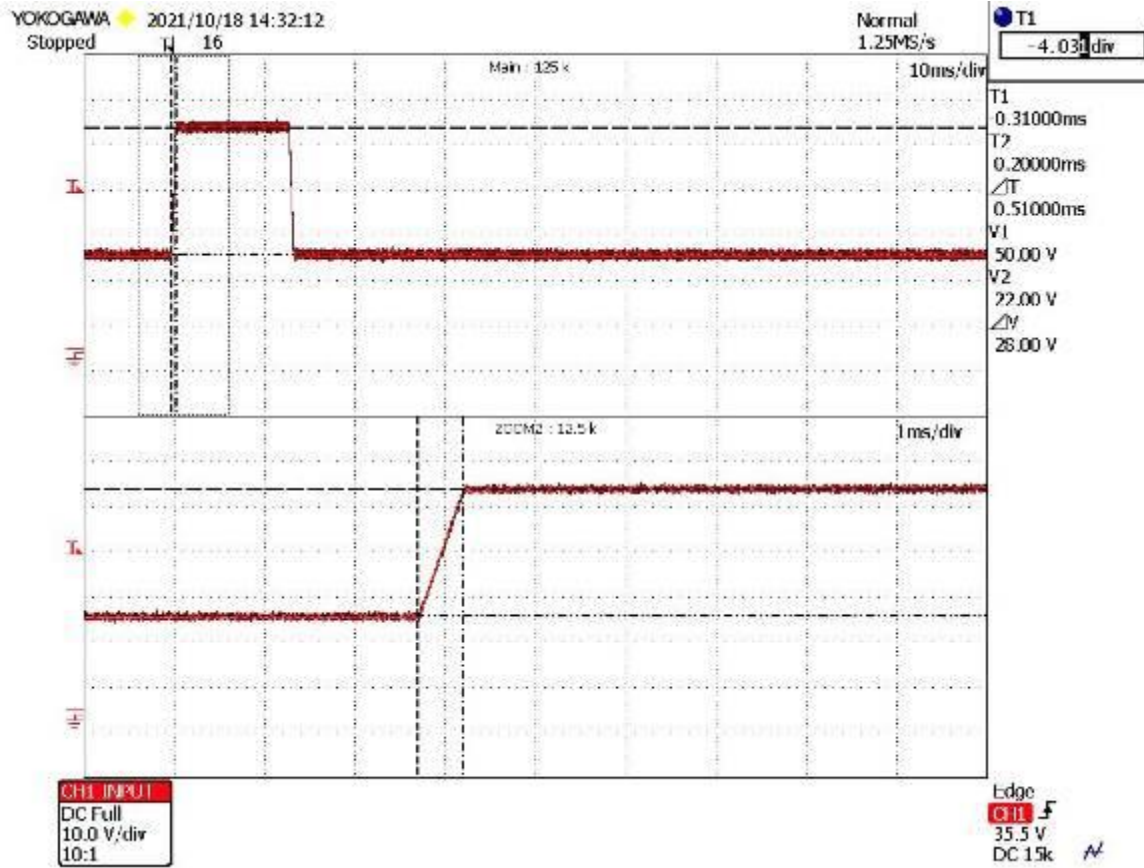


Figure E-39: LDC105, Condition FF, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

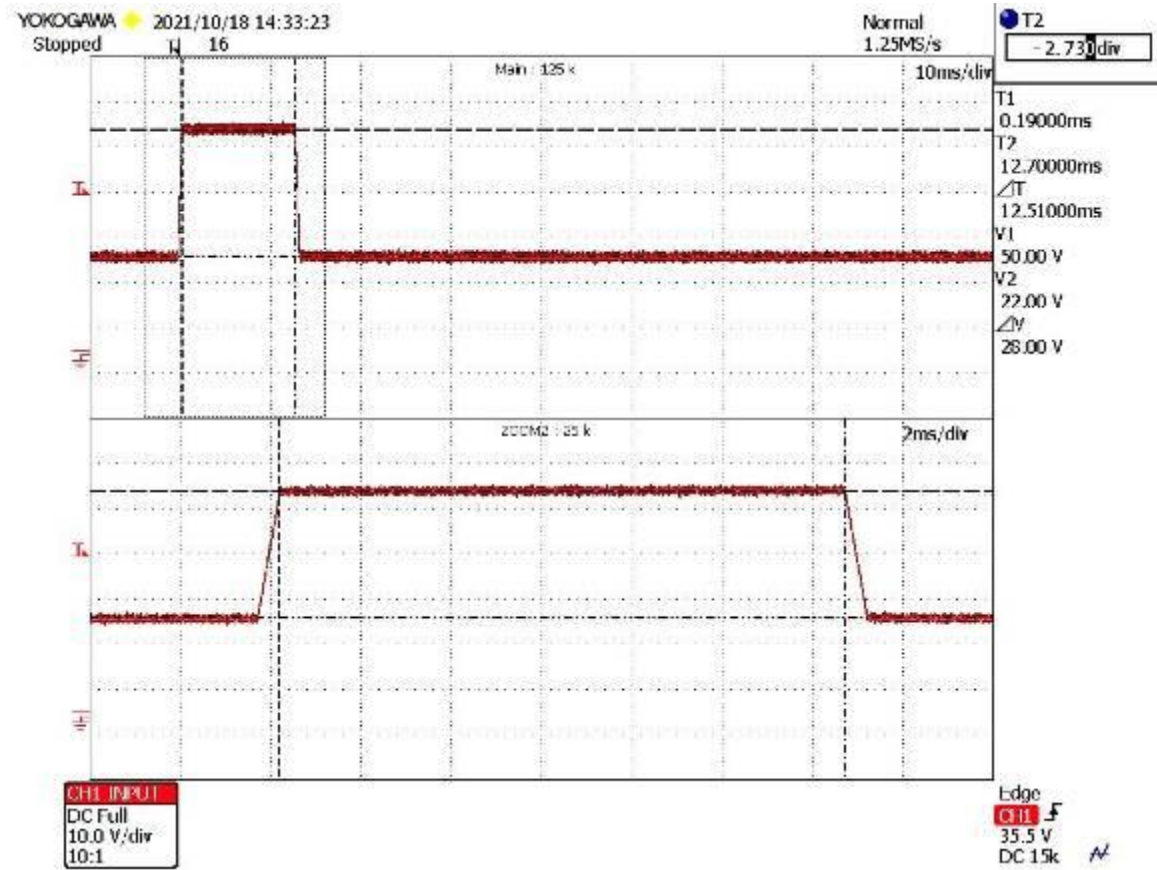


Figure E-40: LDC105, Condition FF, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

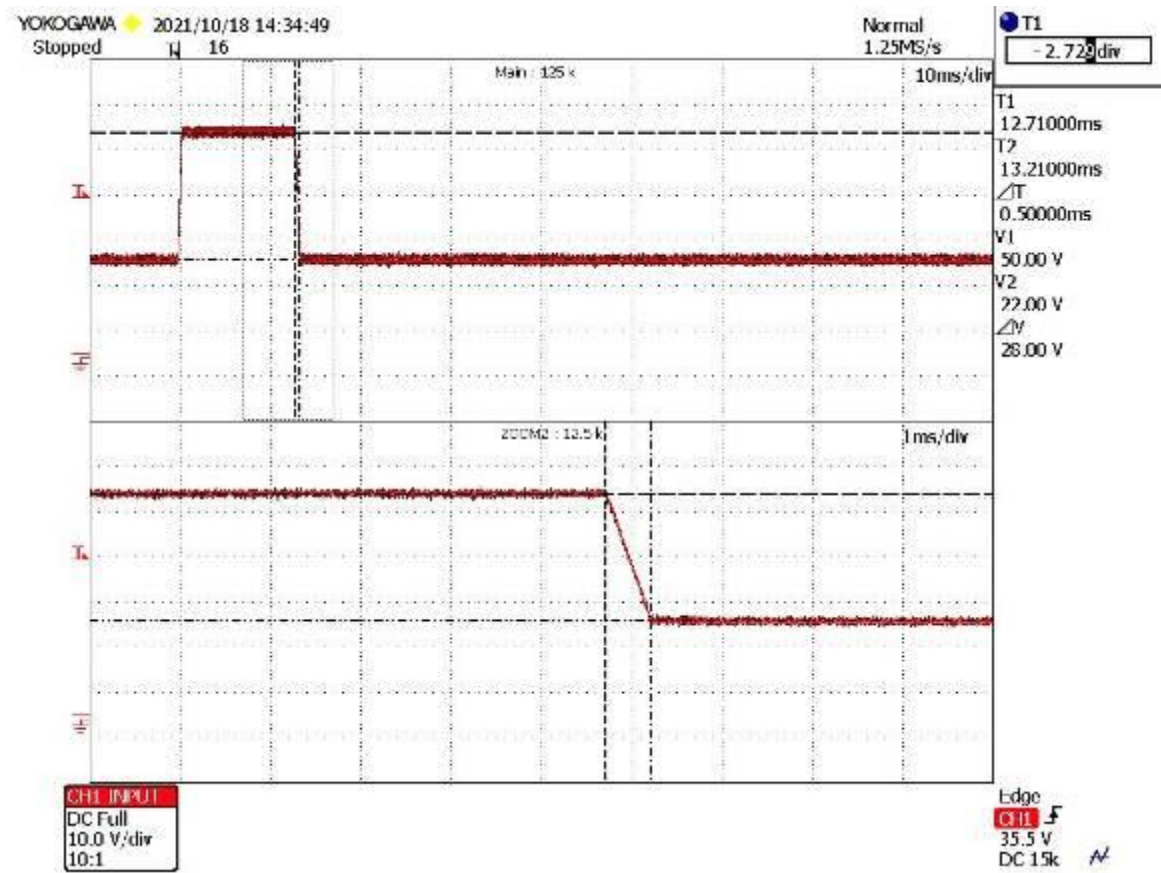


Figure E-41: LDC105, Condition FF, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

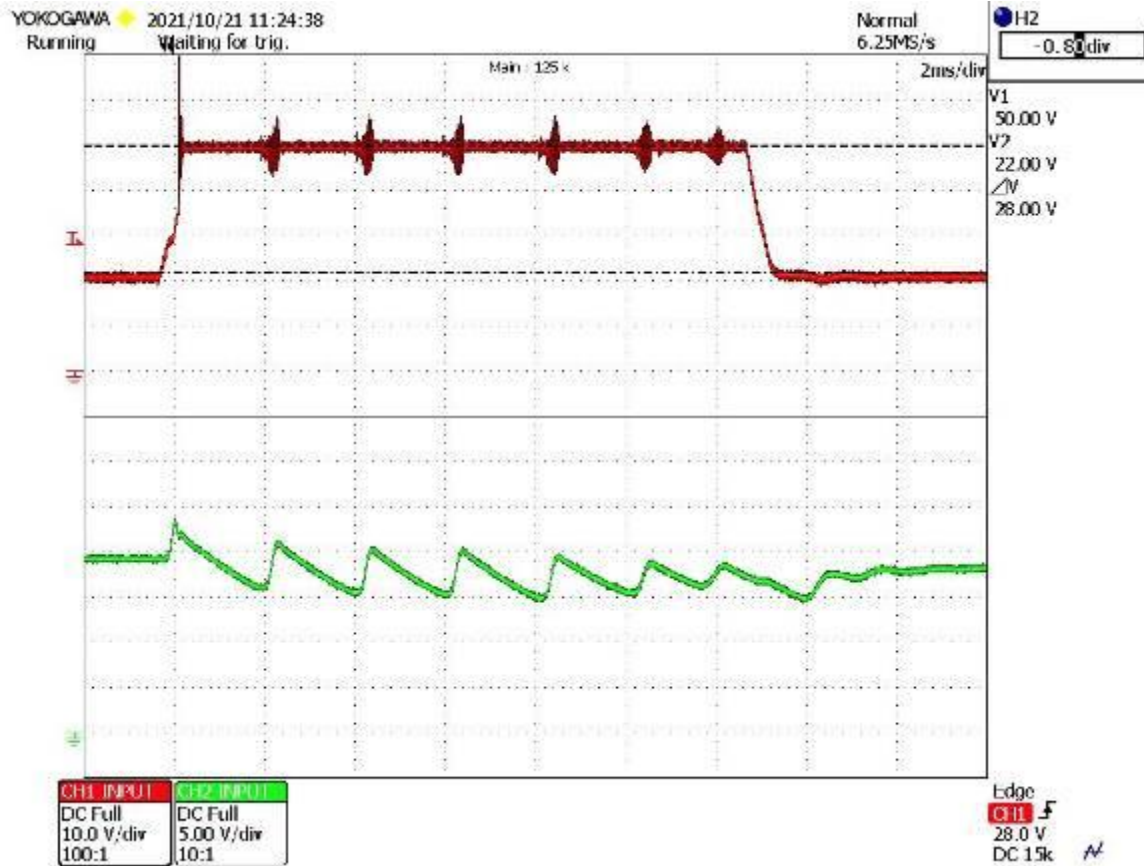


Figure E-42: LDC105, Condition FF, test application with cursor amplitude measurement

Red trace = input voltage

Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

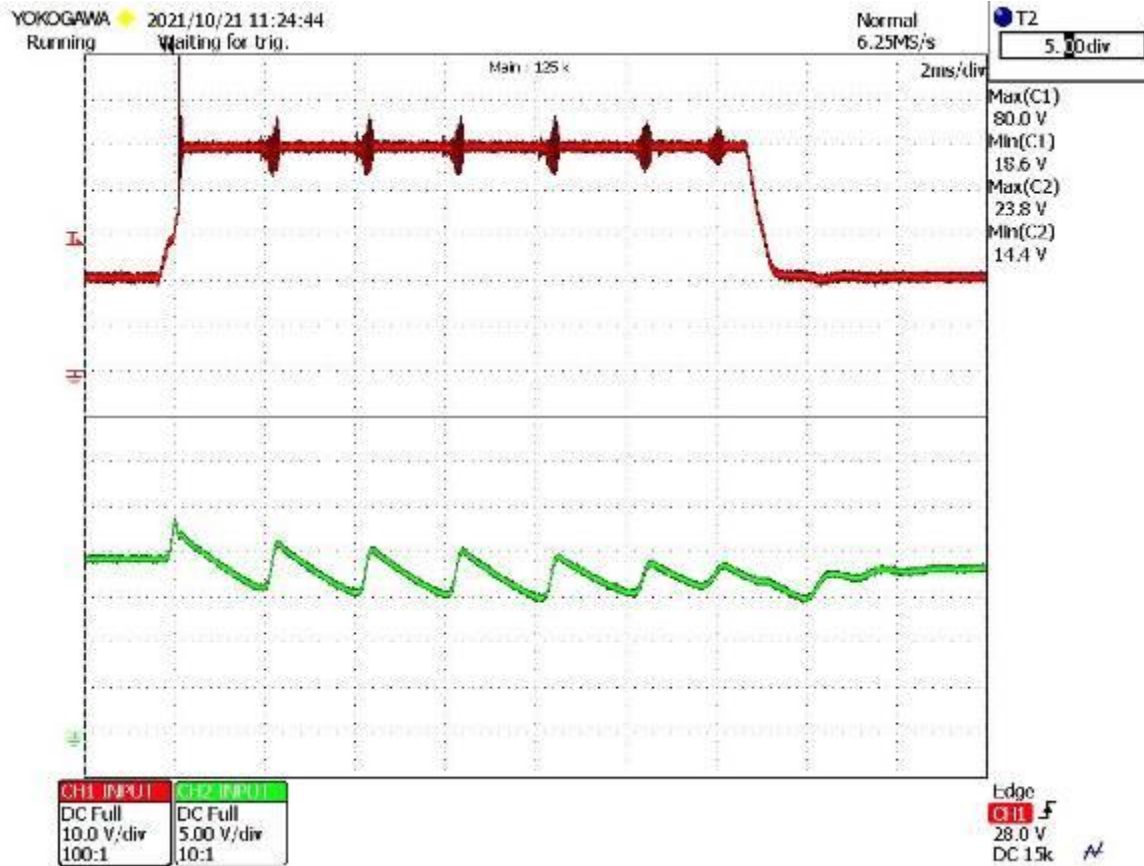


Figure E-43: LDC105, Condition FF, test application with minimum and maximum measurement

Red trace = input voltage

Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

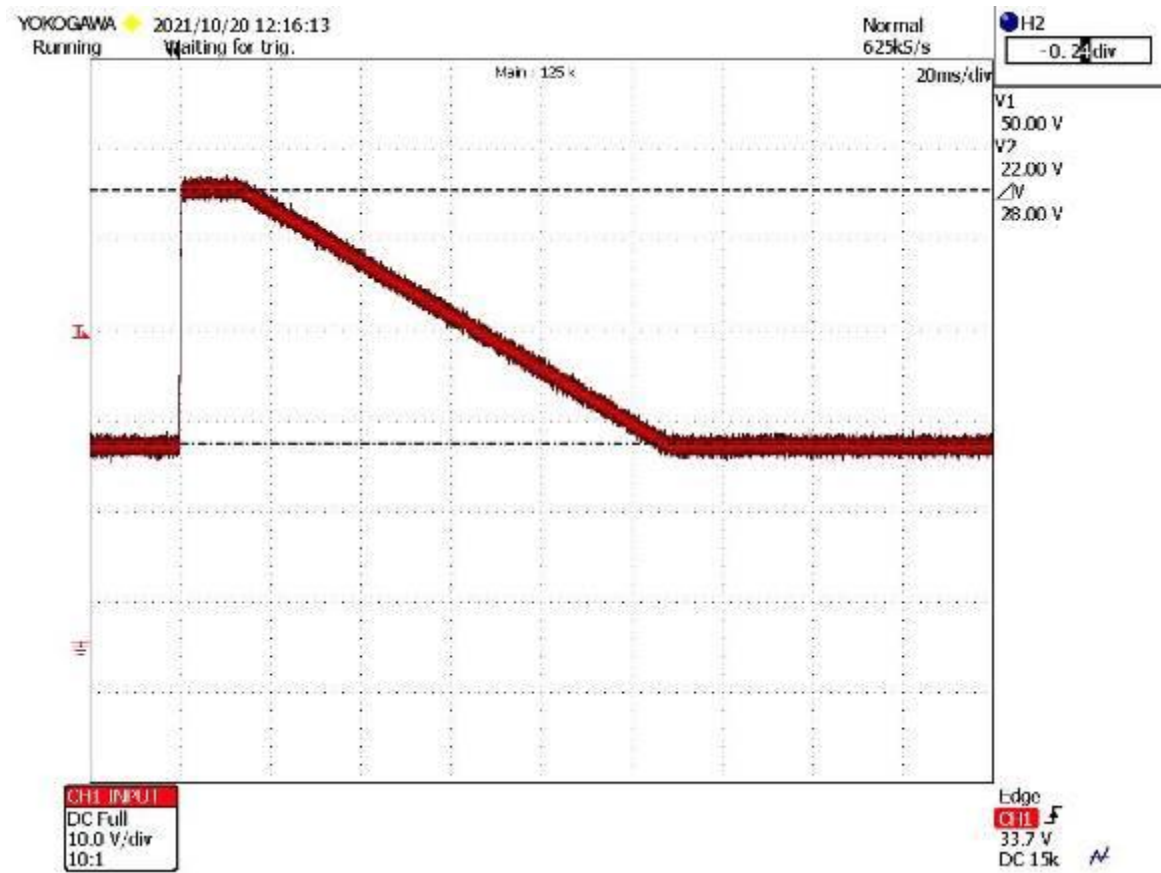


Figure E-44: LDC105, Condition GG, waveform verification, steady state and transient verification

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

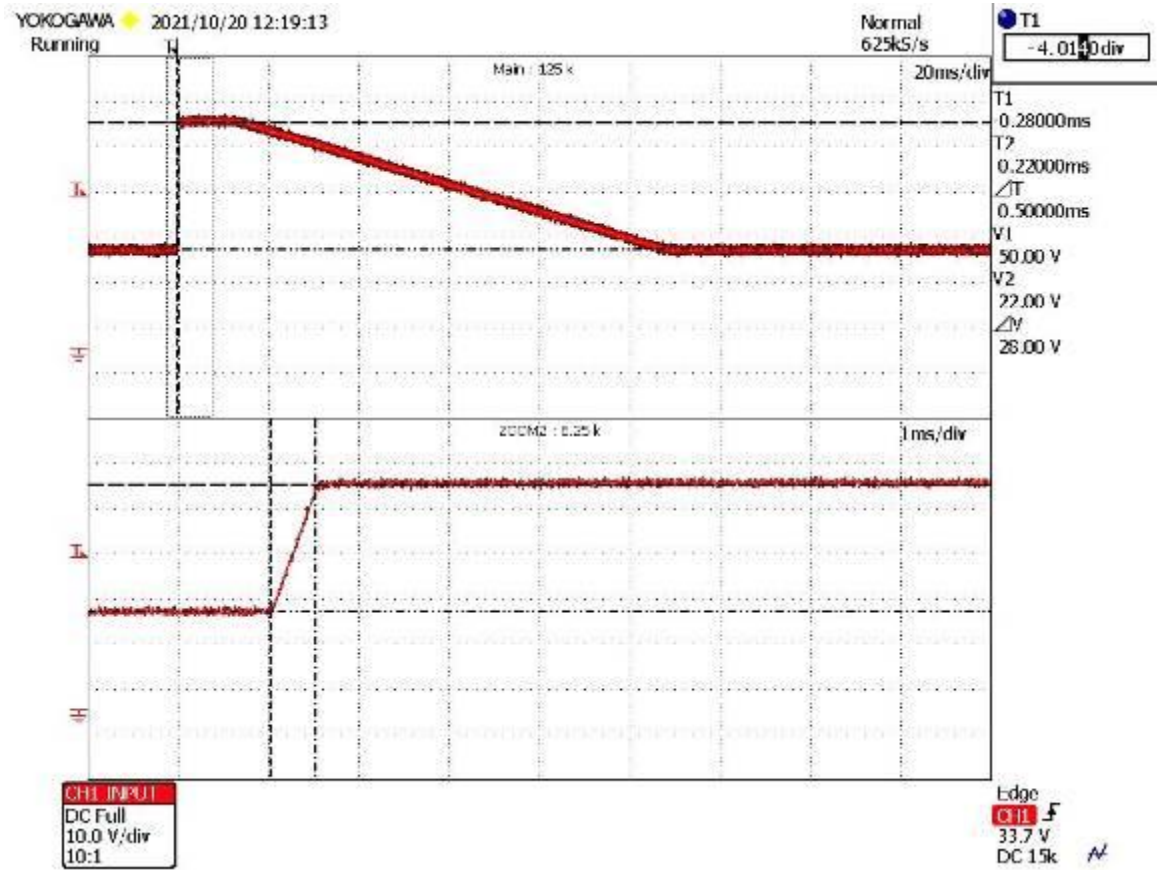
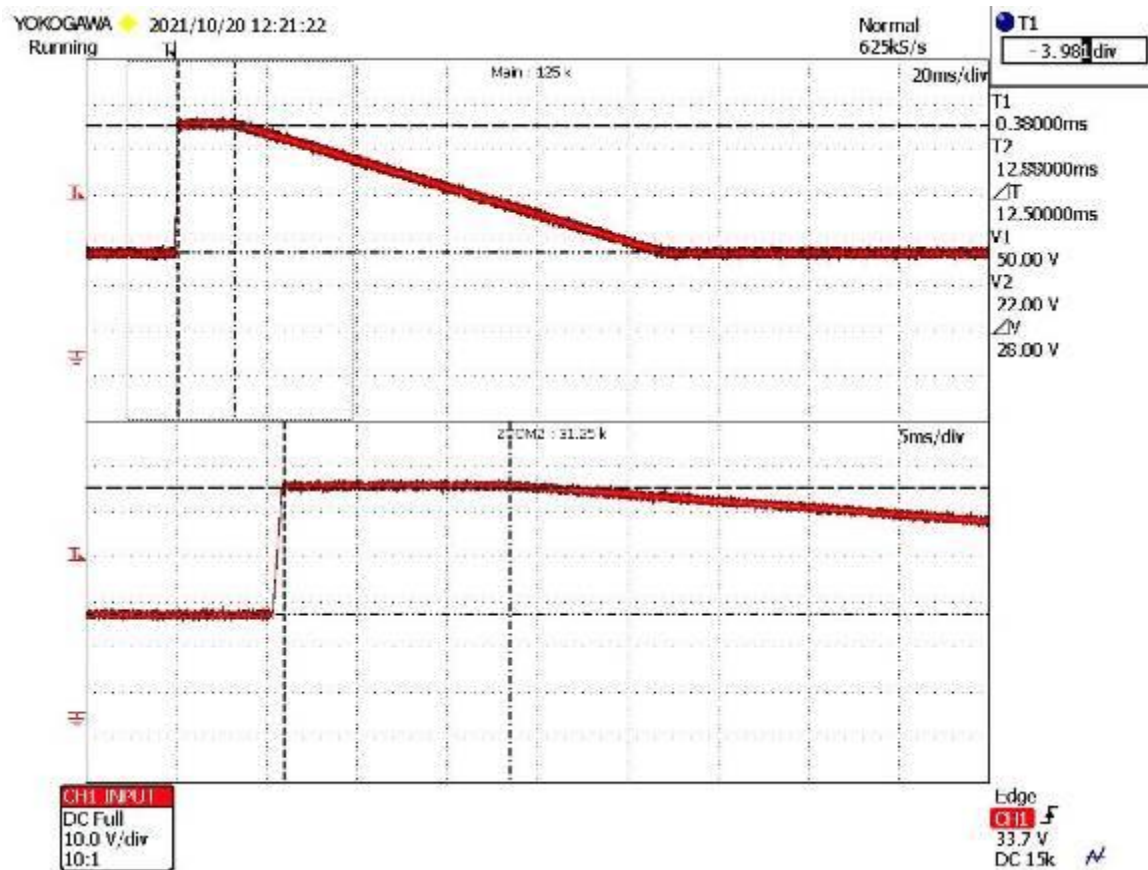


Figure E-45: LDC105, Condition GG, waveform verification, transient rise time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

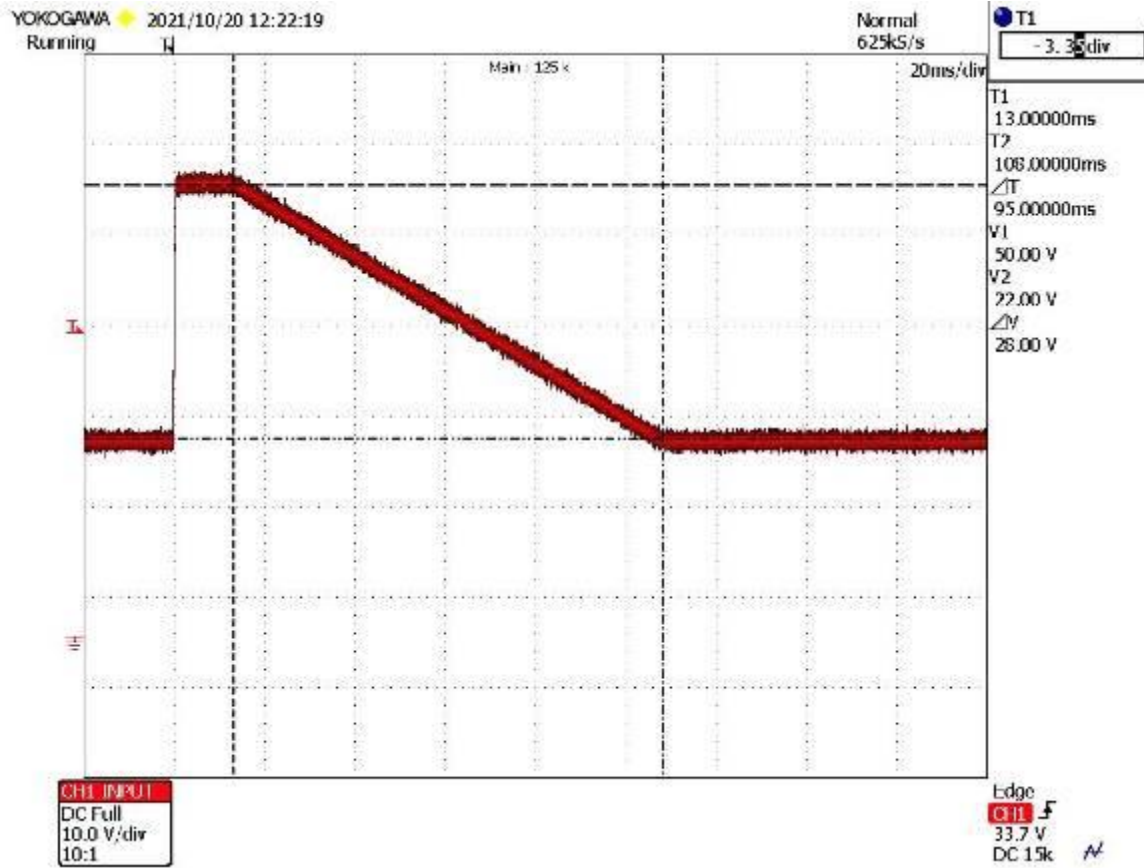


Figure E-47: LDC105, Condition GG, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

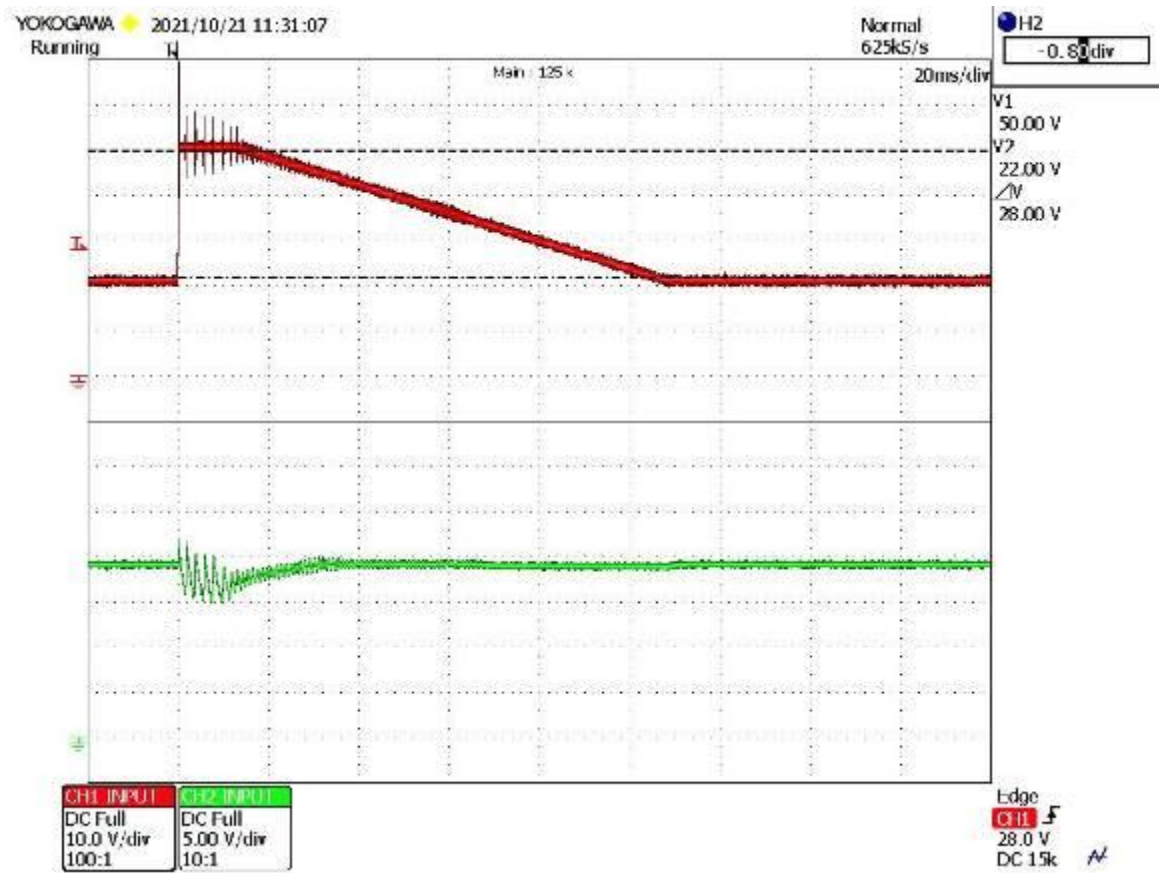


Figure E-48: LDC105, Condition GG, test application with cursor amplitude measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

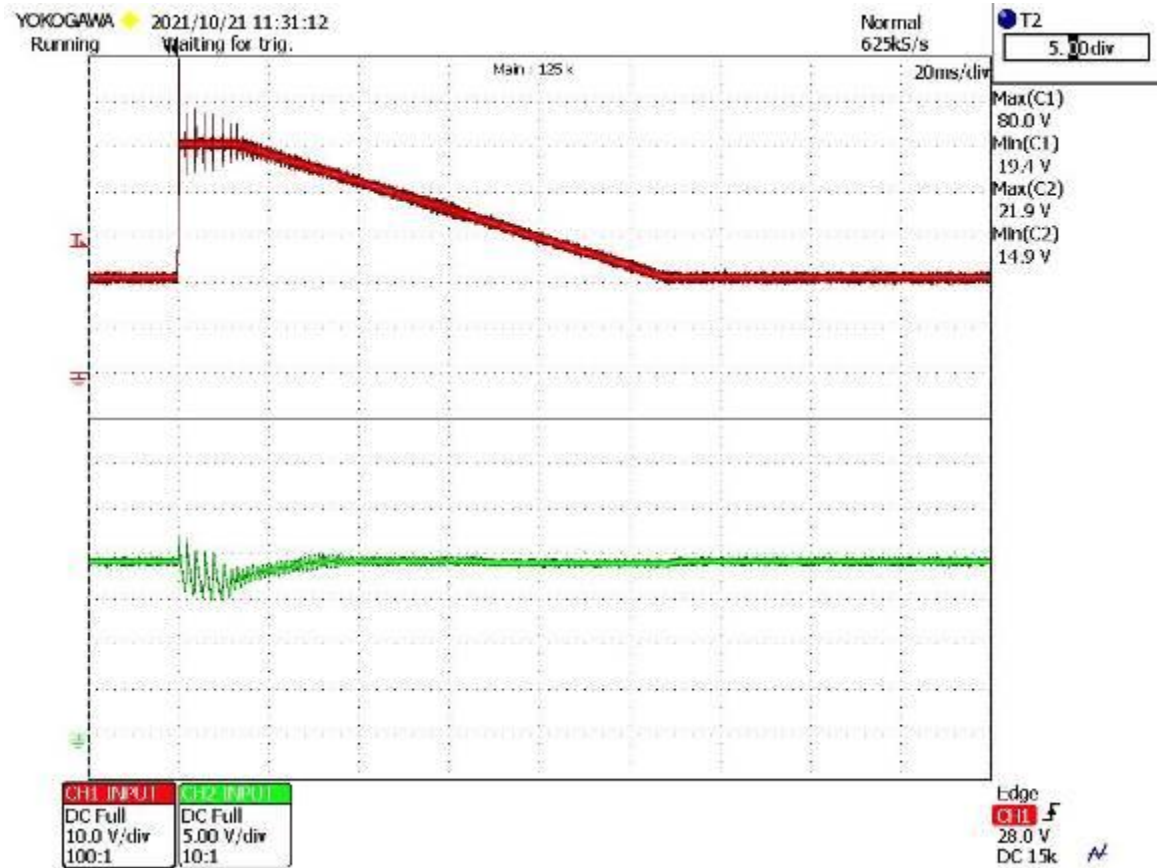


Figure E-49: LDC105, Condition GG, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

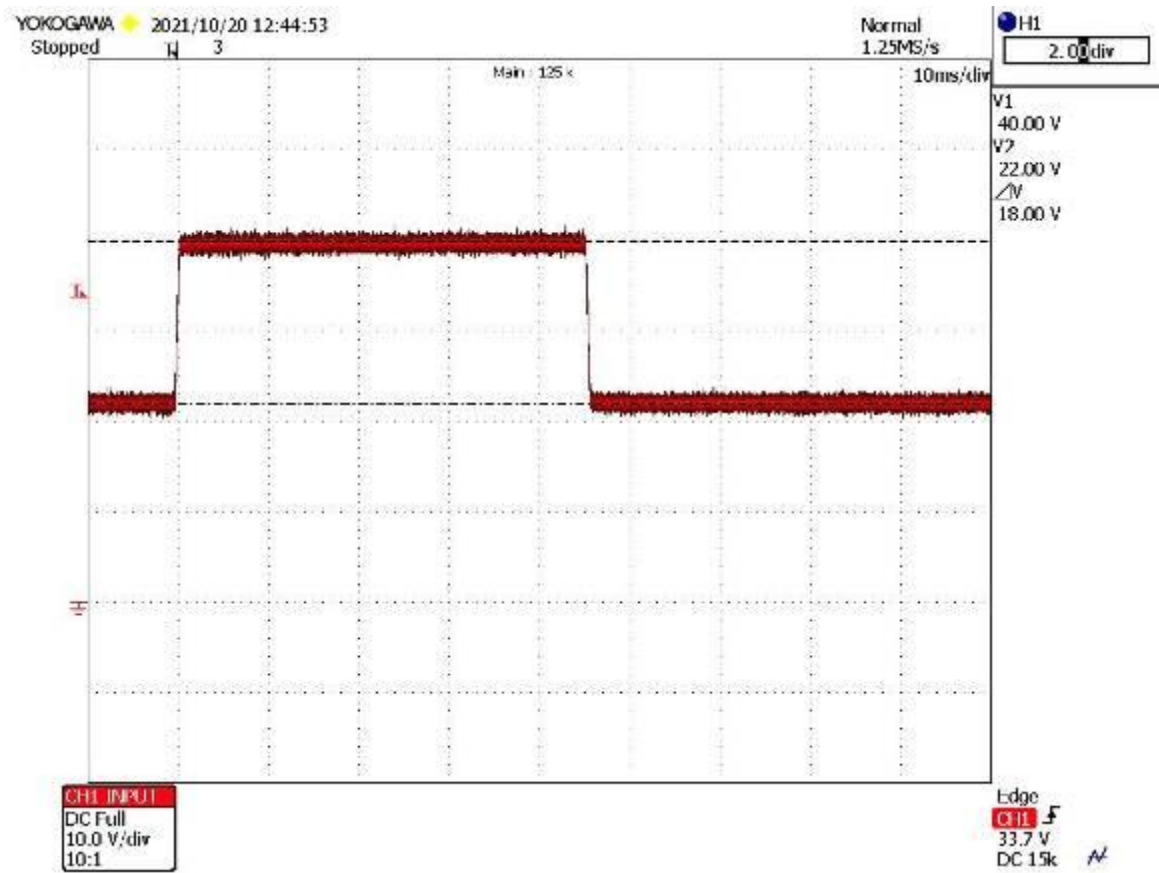


Figure E-50: LDC105, Condition HH, waveform verification, steady state and transient verification

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

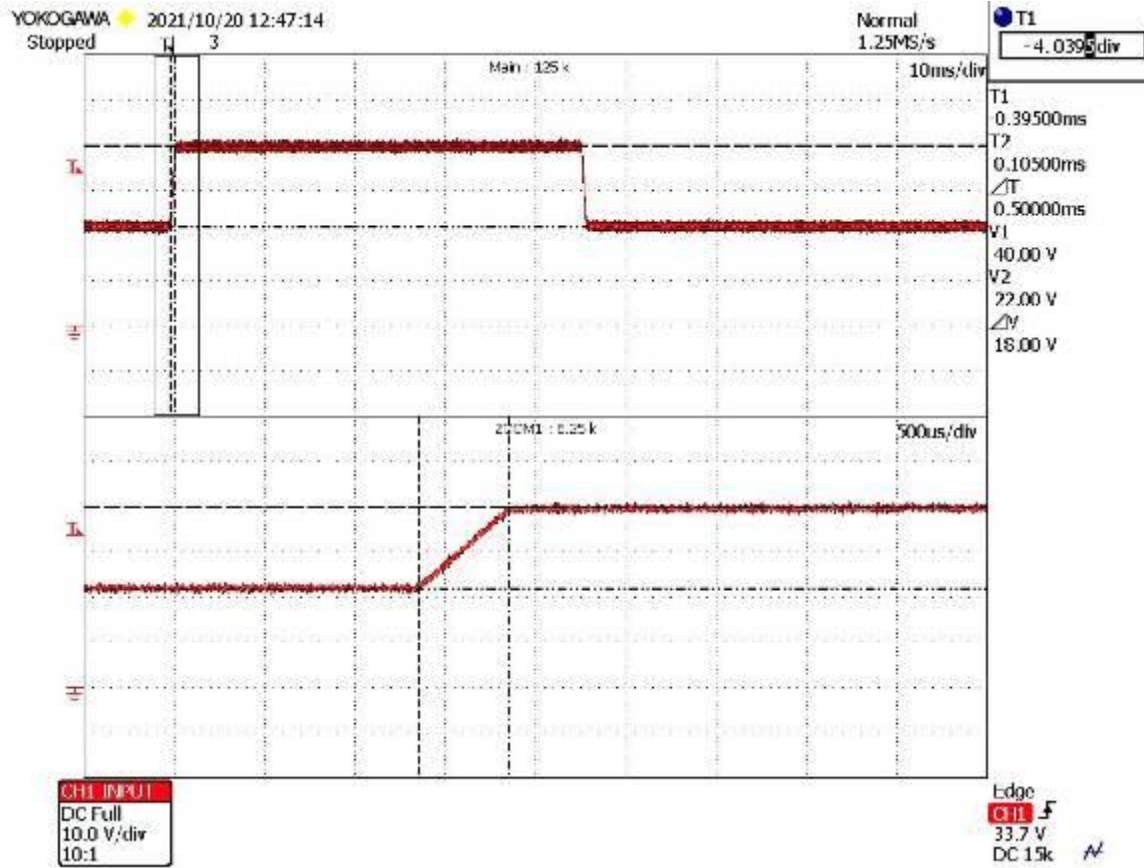


Figure E-51: LDC105, Condition HH, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

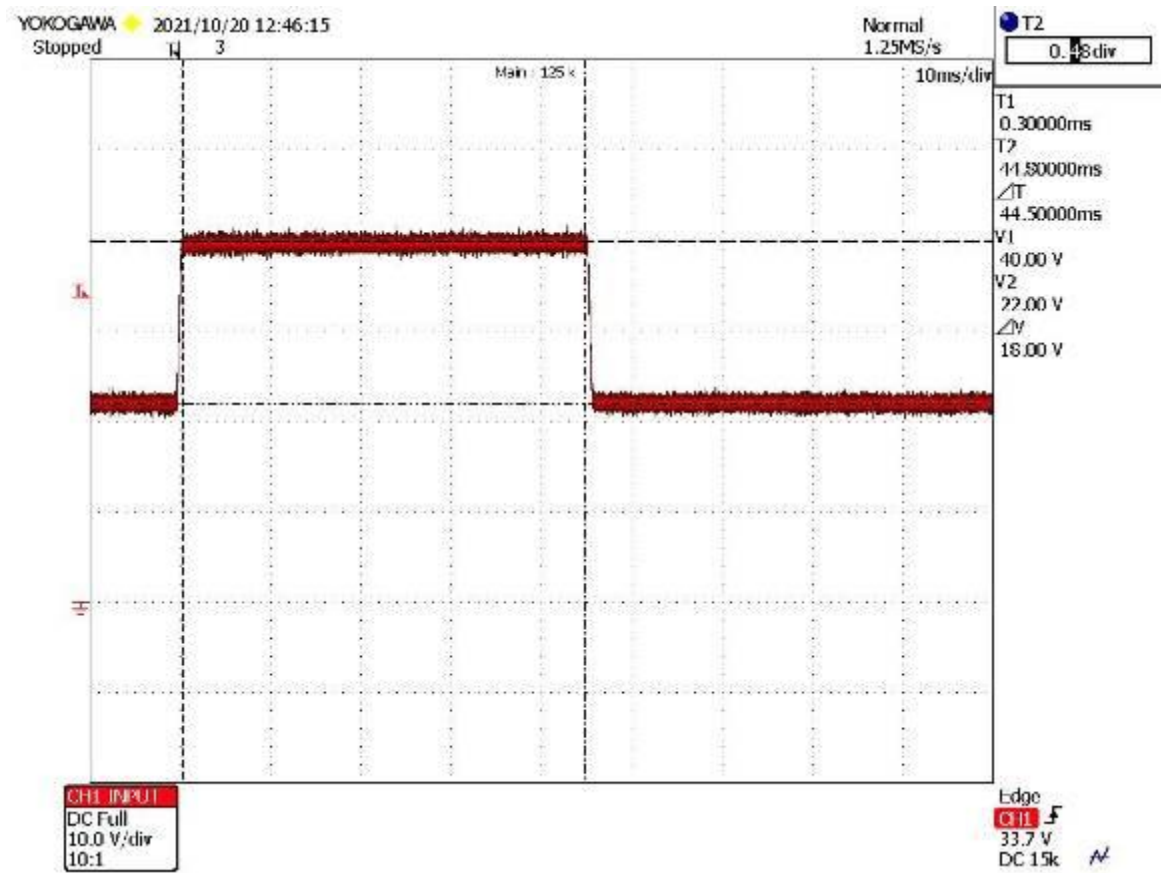


Figure E-52: LDC105, Condition HH, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

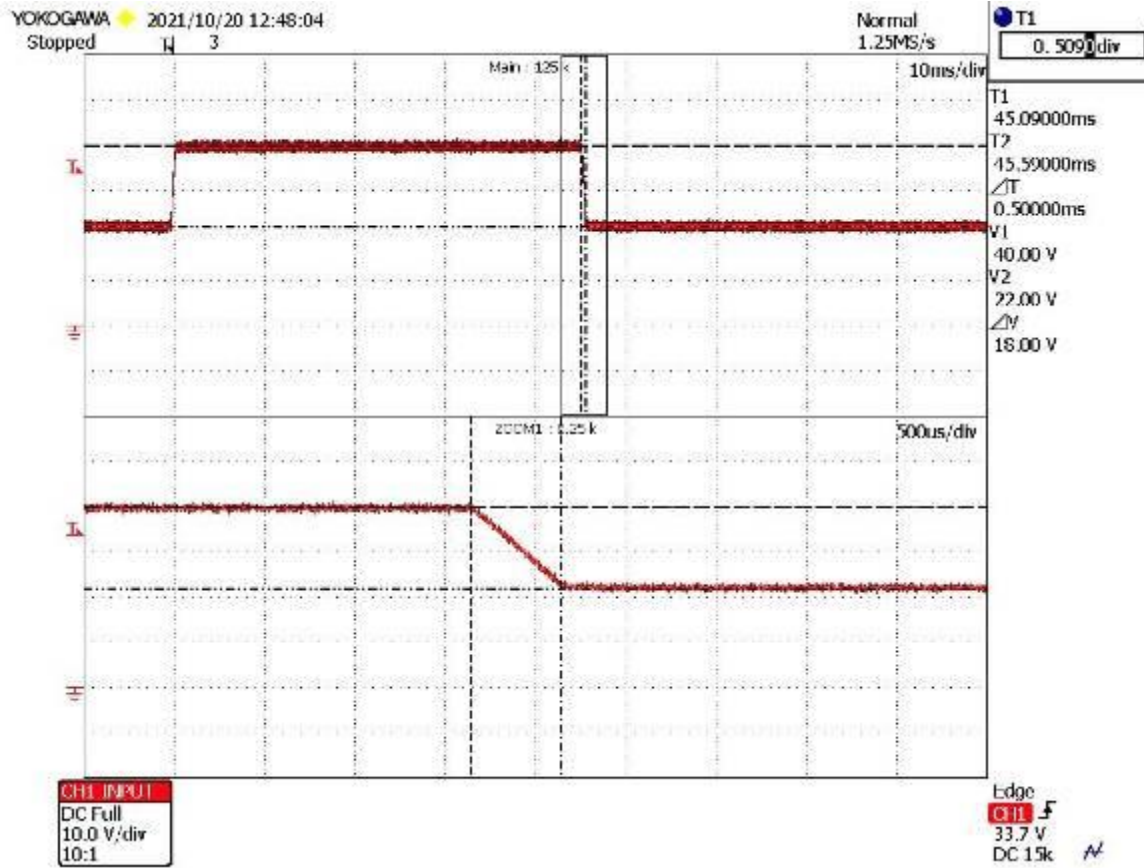


Figure E-53: LDC105, Condition HH, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

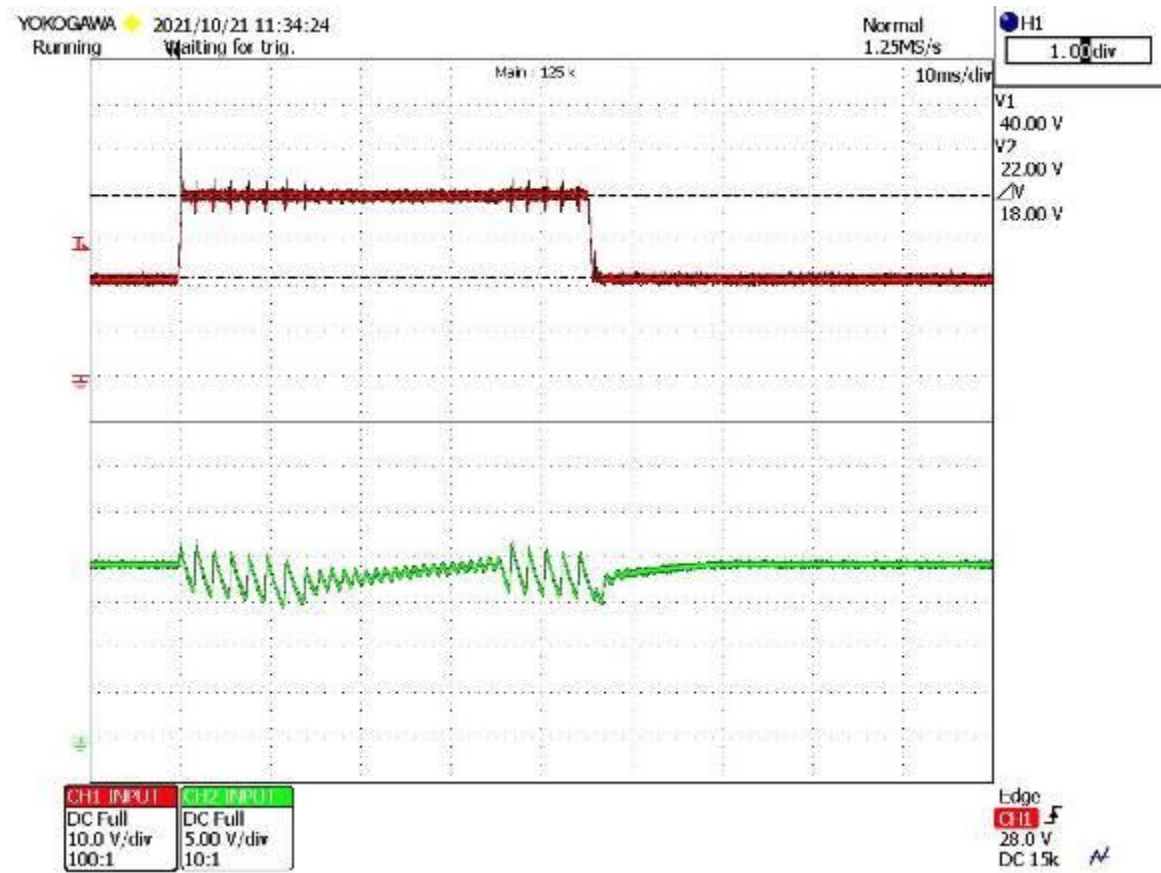


Figure E-54: LDC105, Condition HH, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

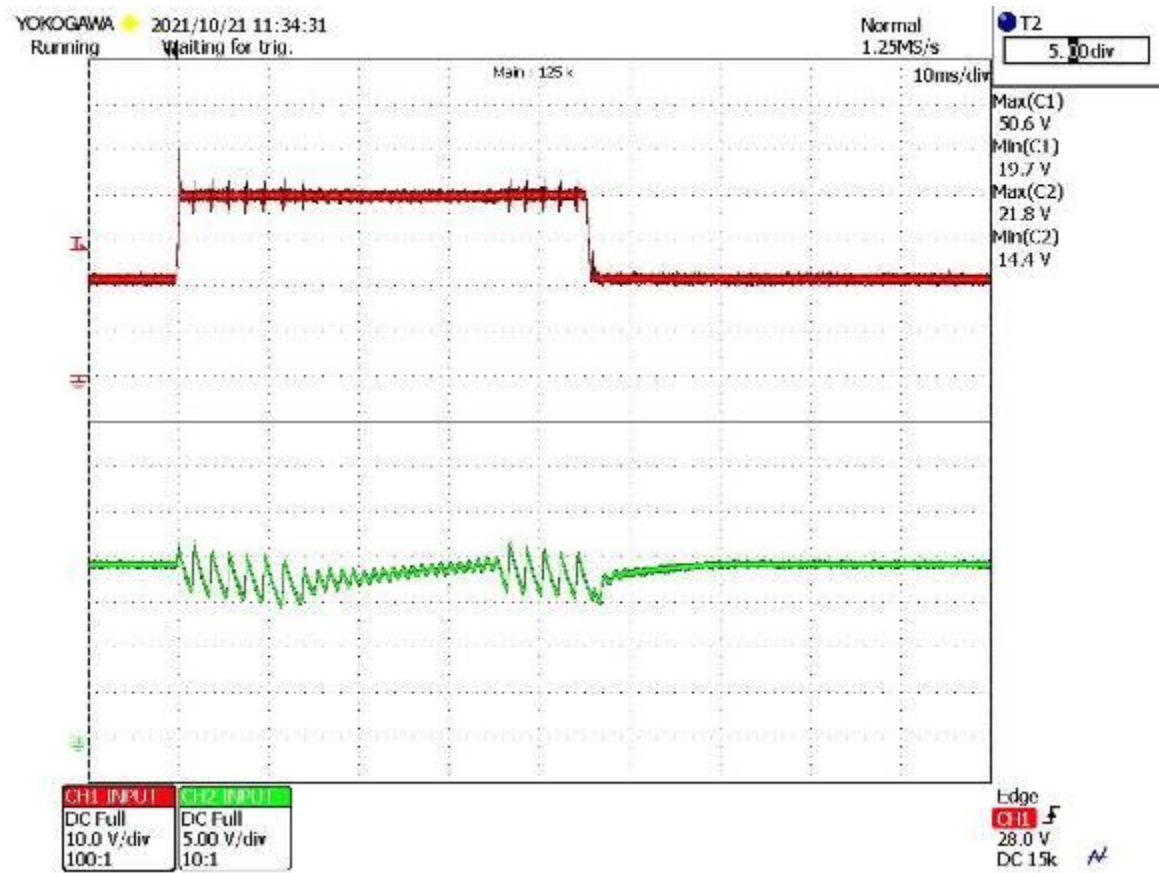


Figure E-55: LDC105, Condition HH, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

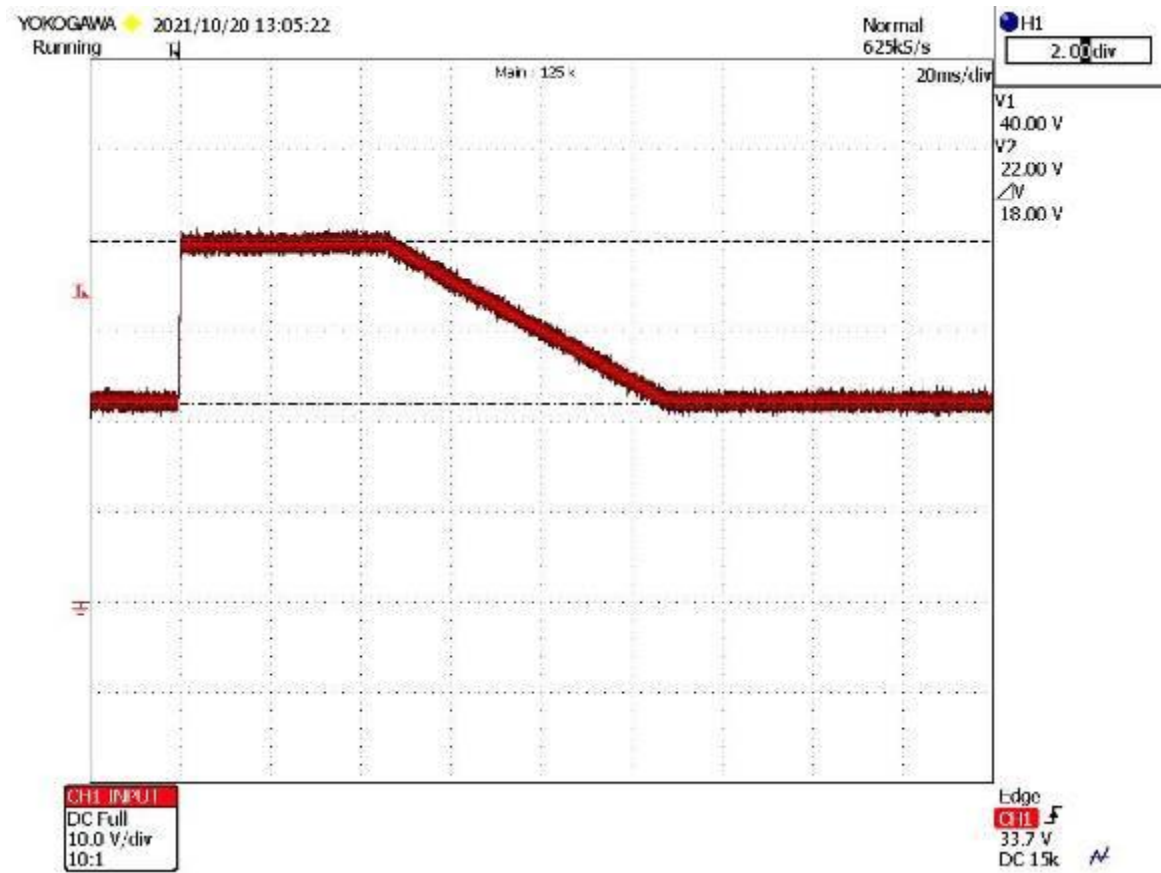


Figure E-56: LDC105, Condition II, waveform verification, steady state and transient verification

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

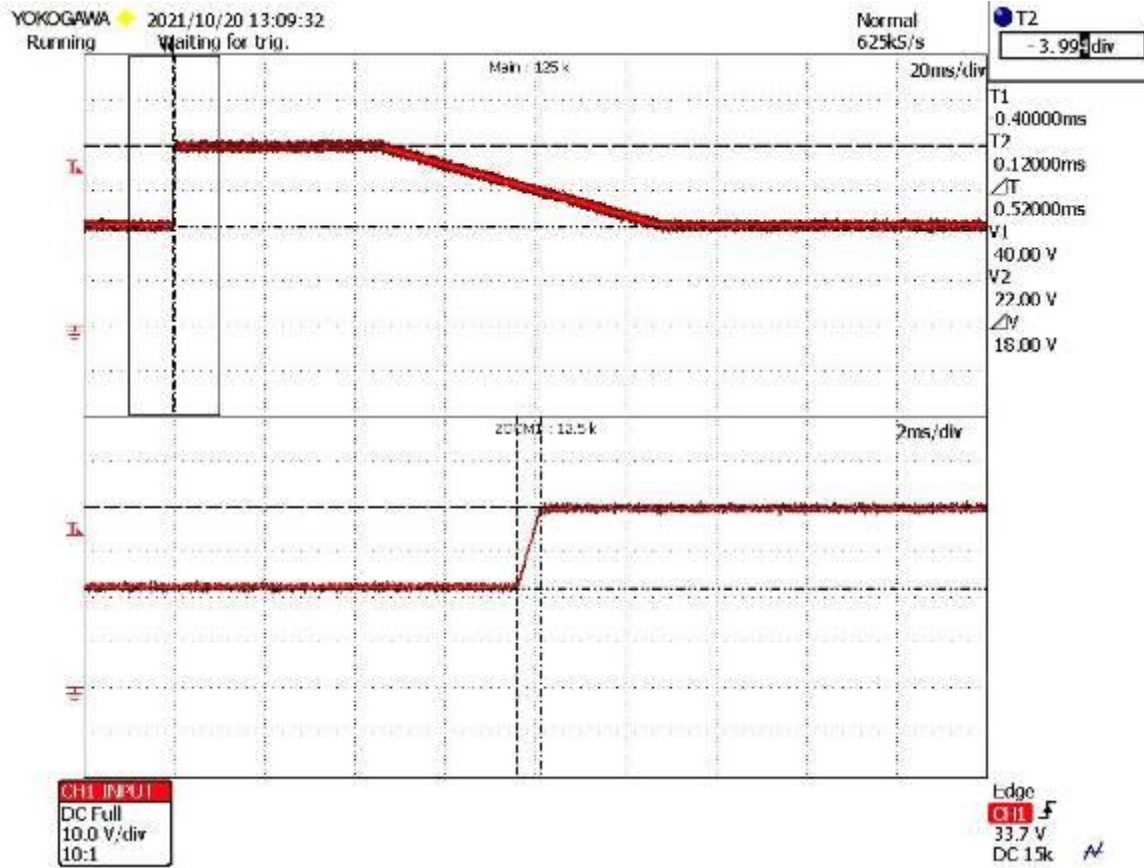


Figure E-57: LDC105, Condition II, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

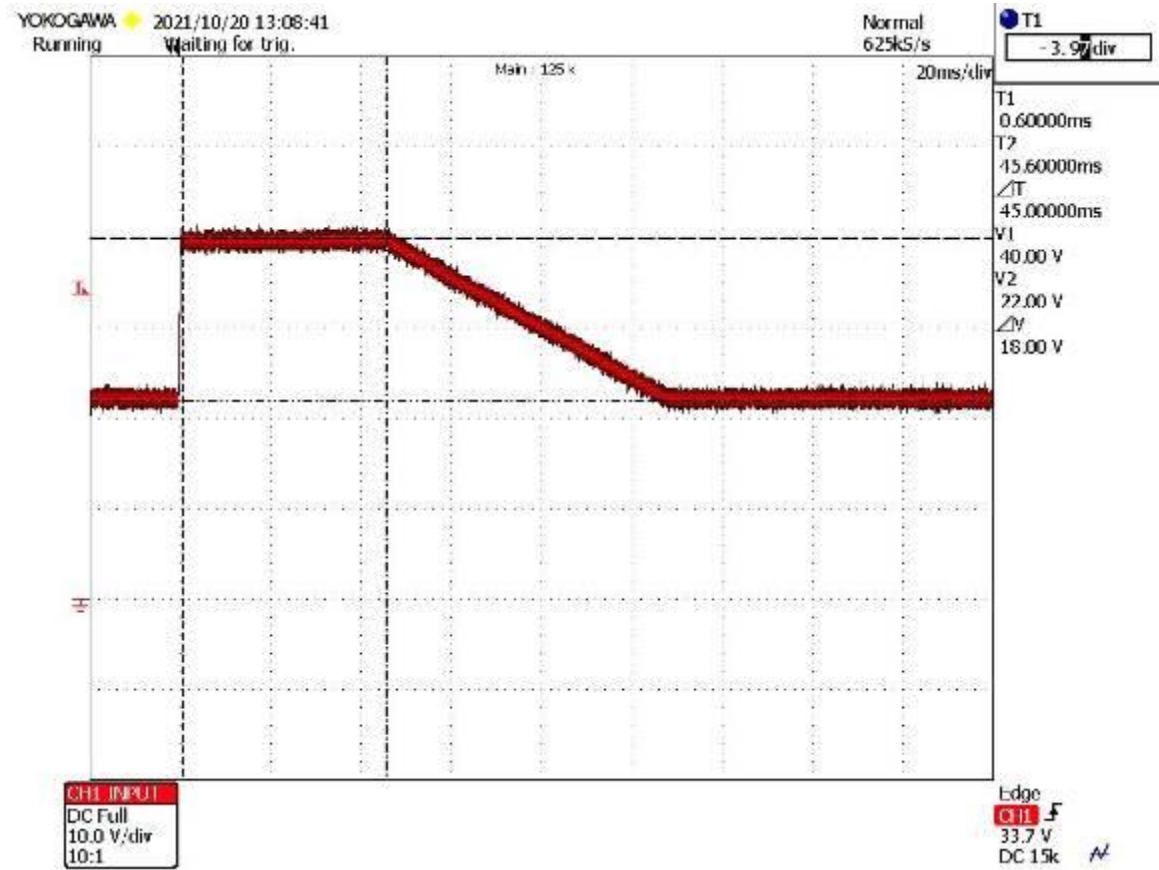


Figure E-58: LDC105, Condition II, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

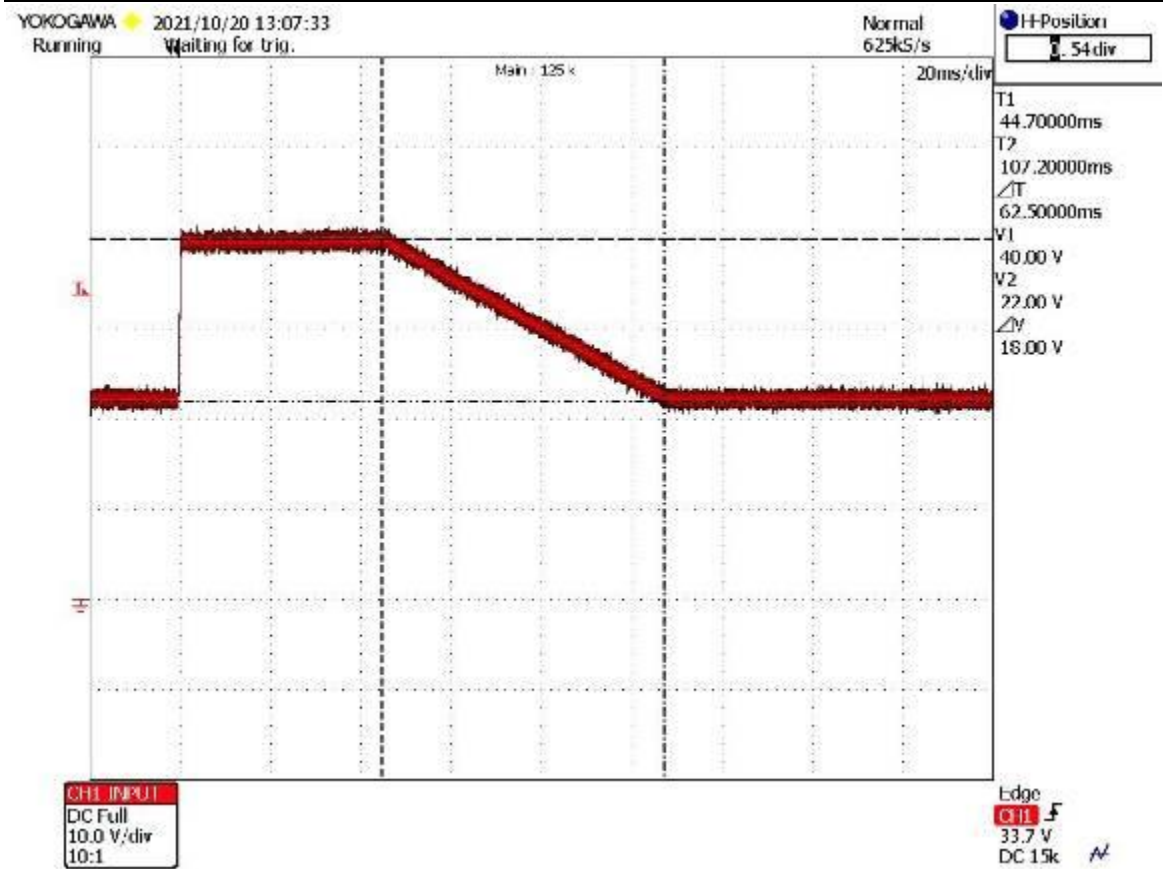


Figure E-59: LDC105, Condition II, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

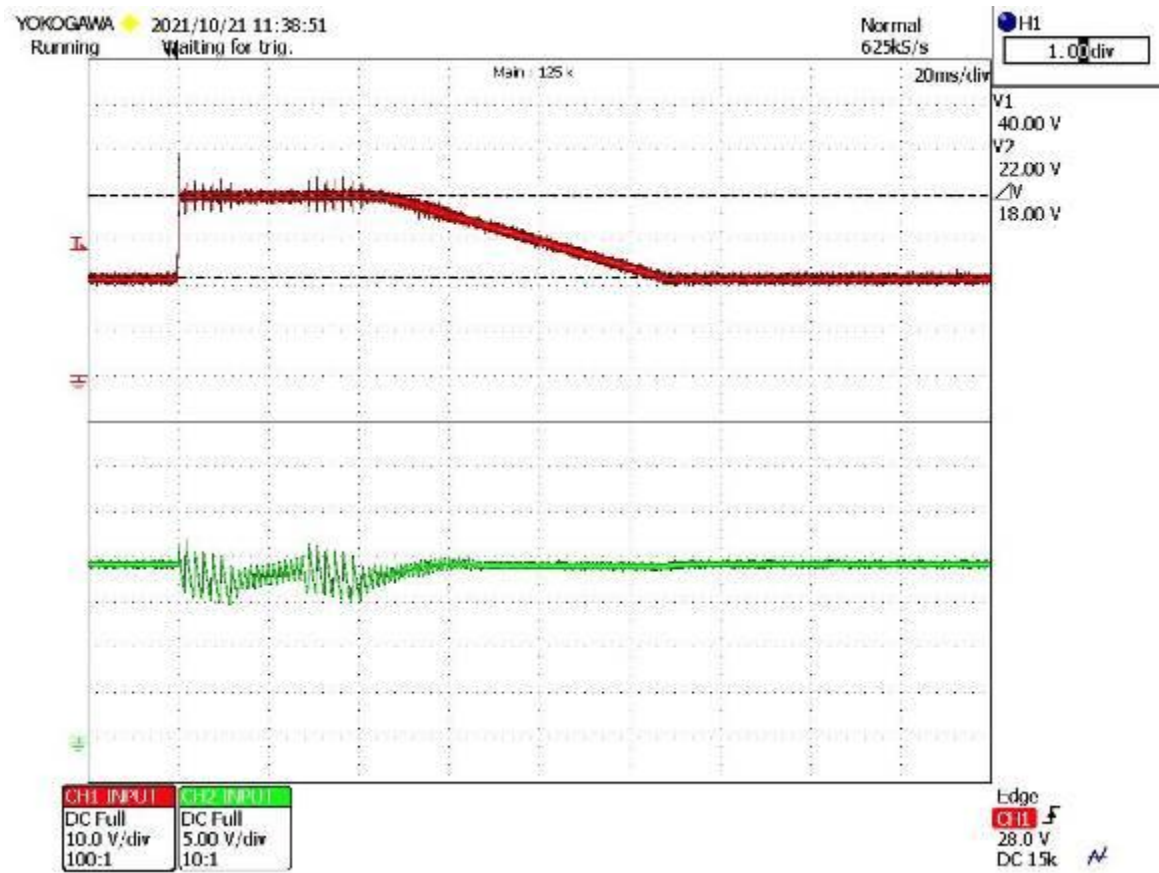


Figure E-60: LDC105, Condition II, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

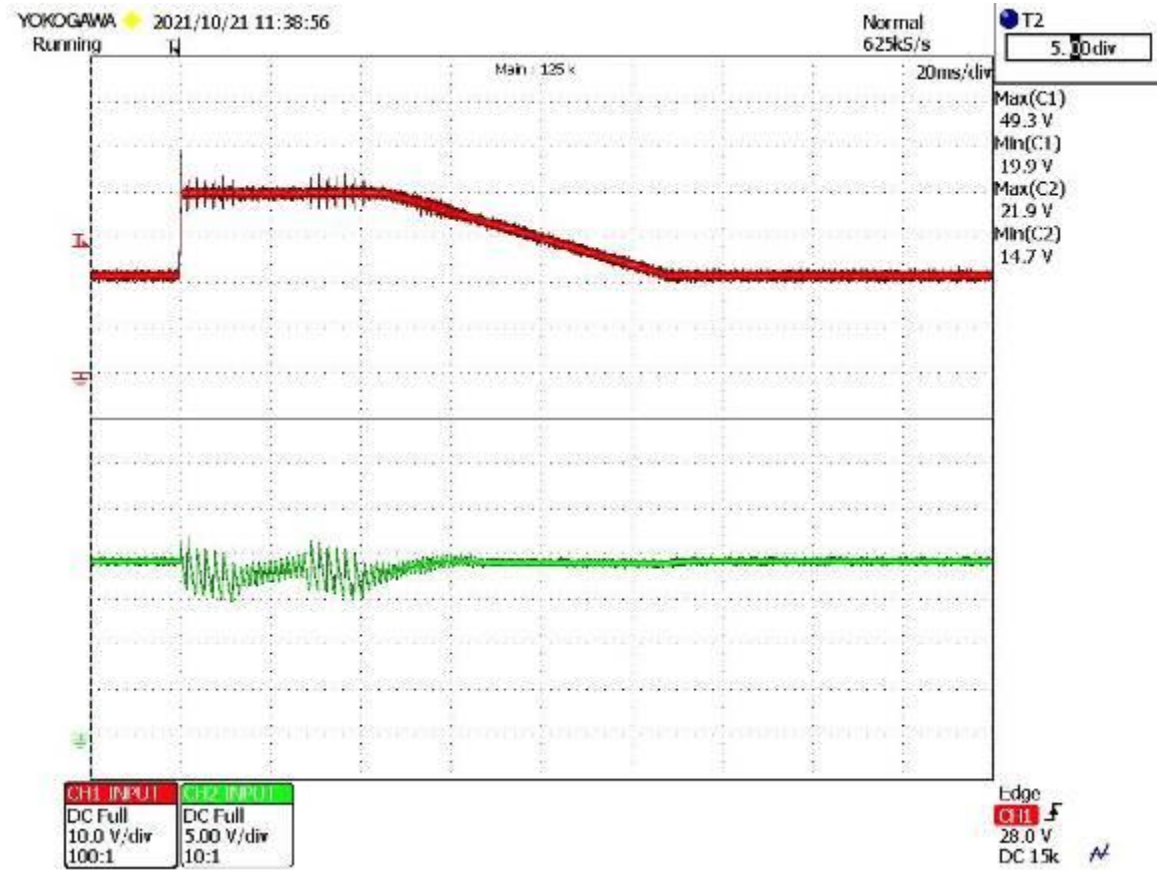


Figure E-61: LDC105, Condition II, test application with minimum and maximum measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

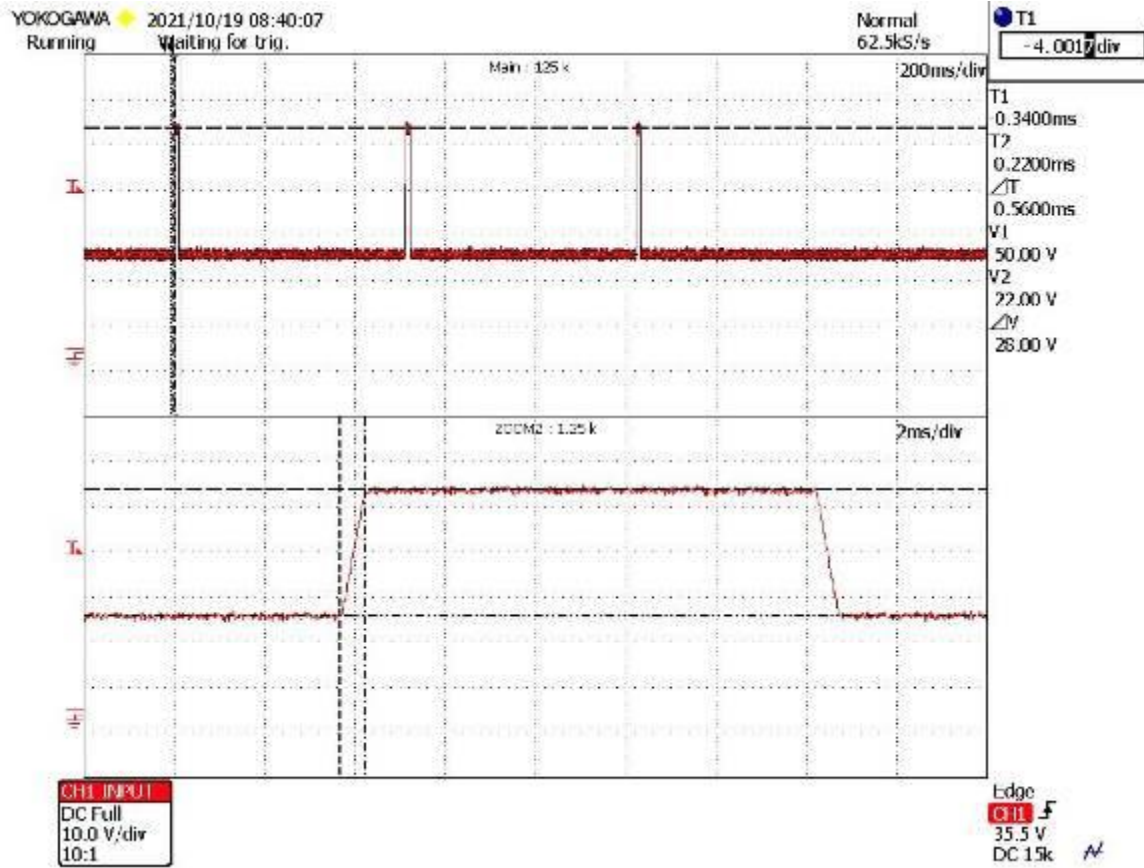


Figure E-62: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, steady state voltage and first transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

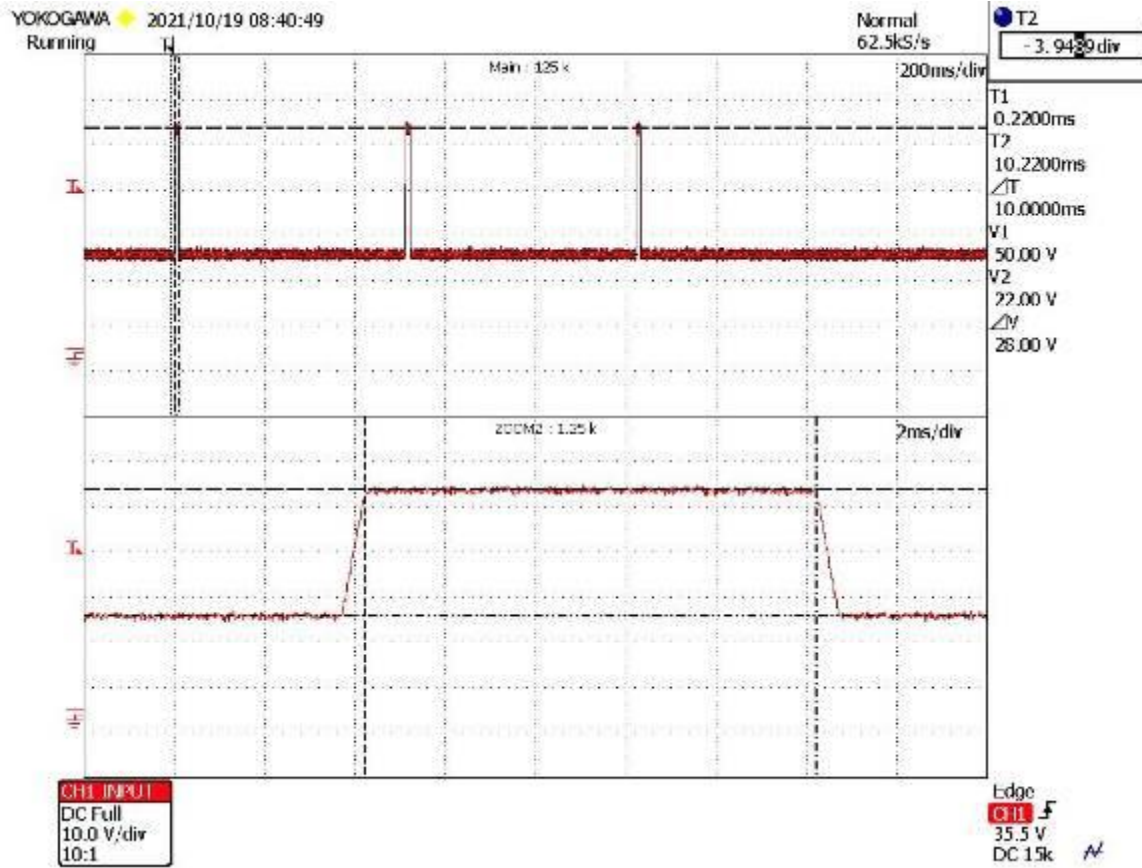


Figure E-63: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

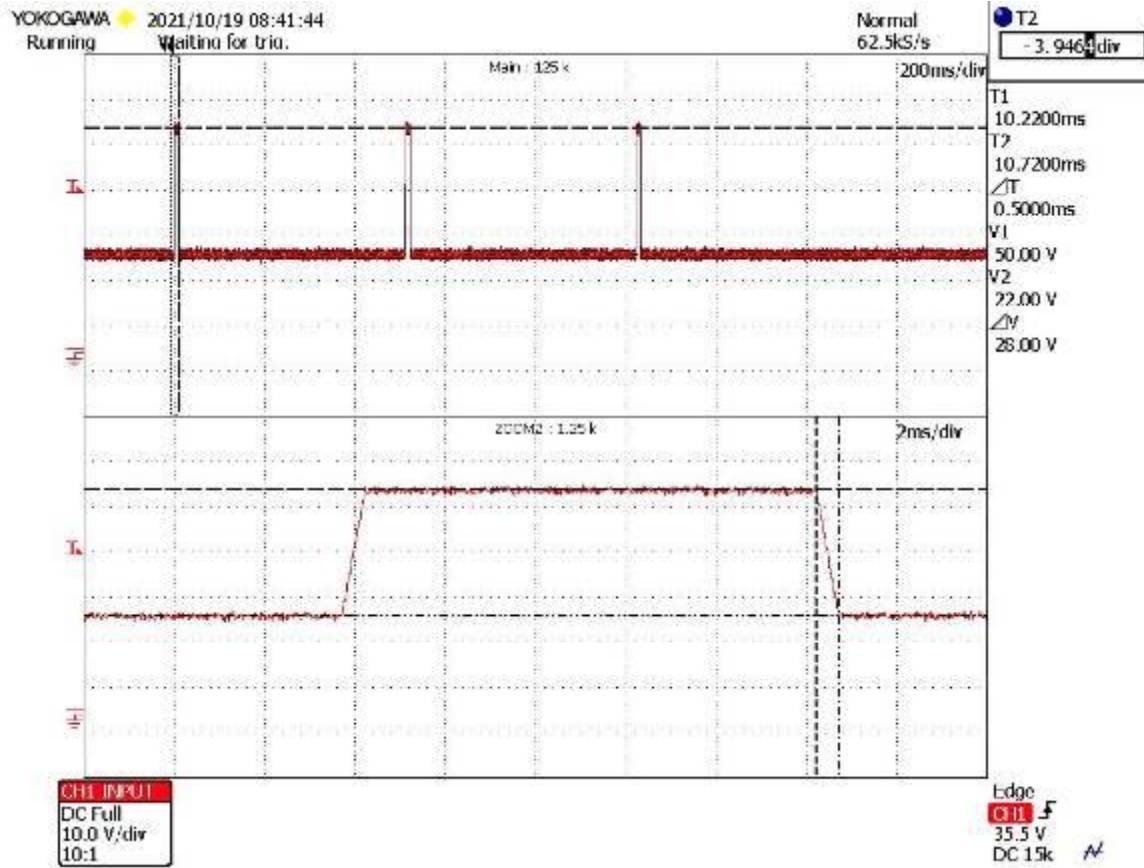


Figure E-64: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

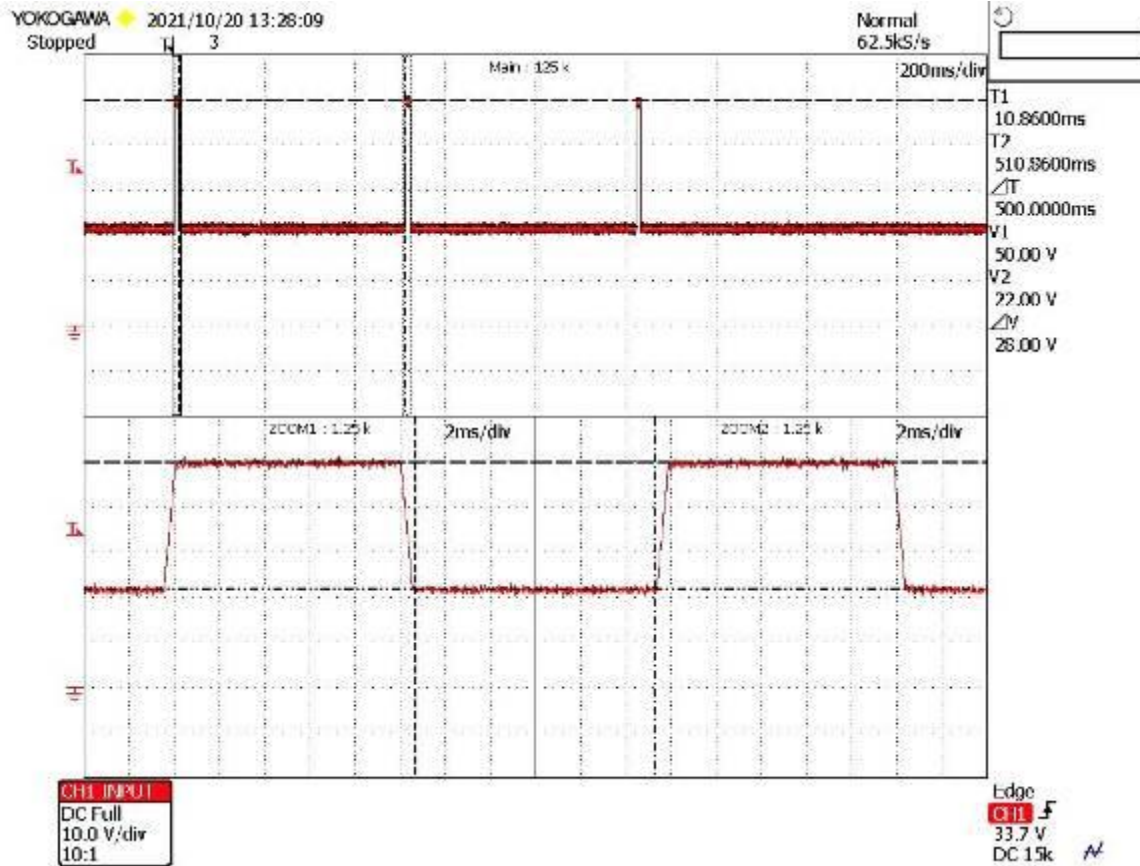


Figure E-65: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, first transient to second transient delay time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

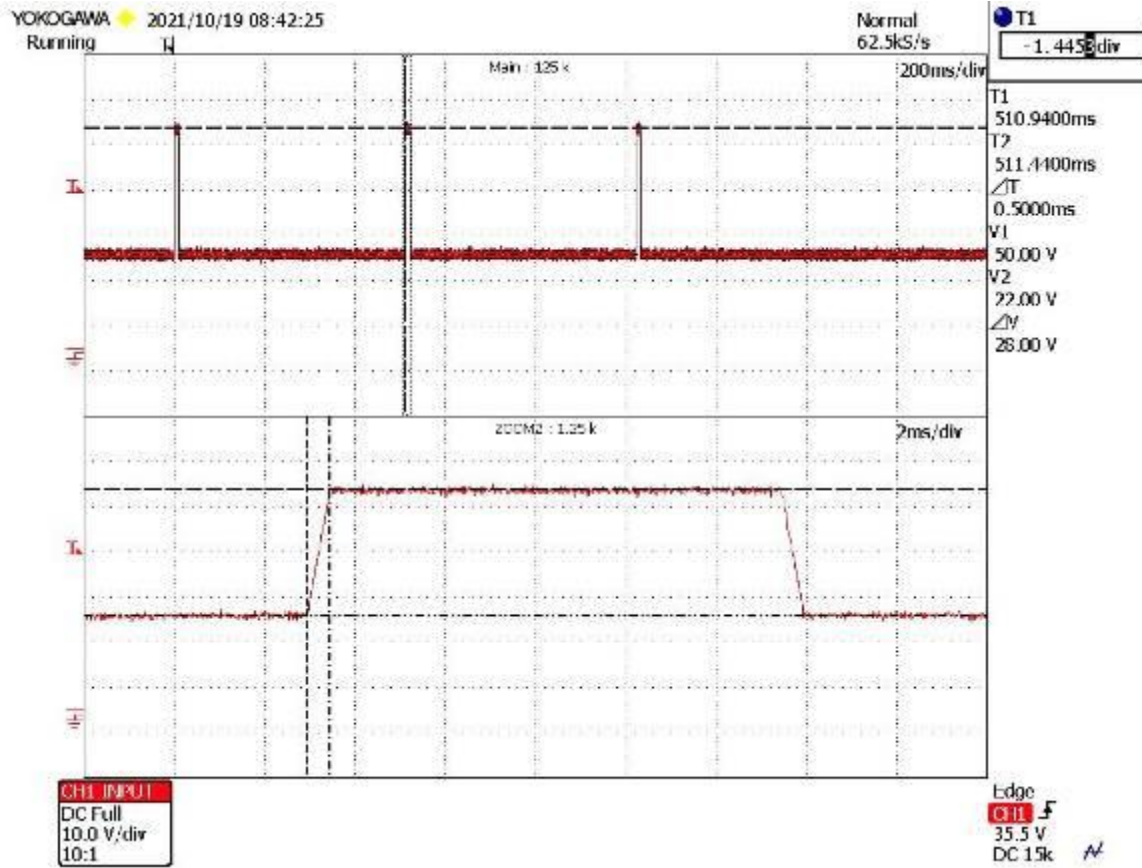


Figure E-66: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, second transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

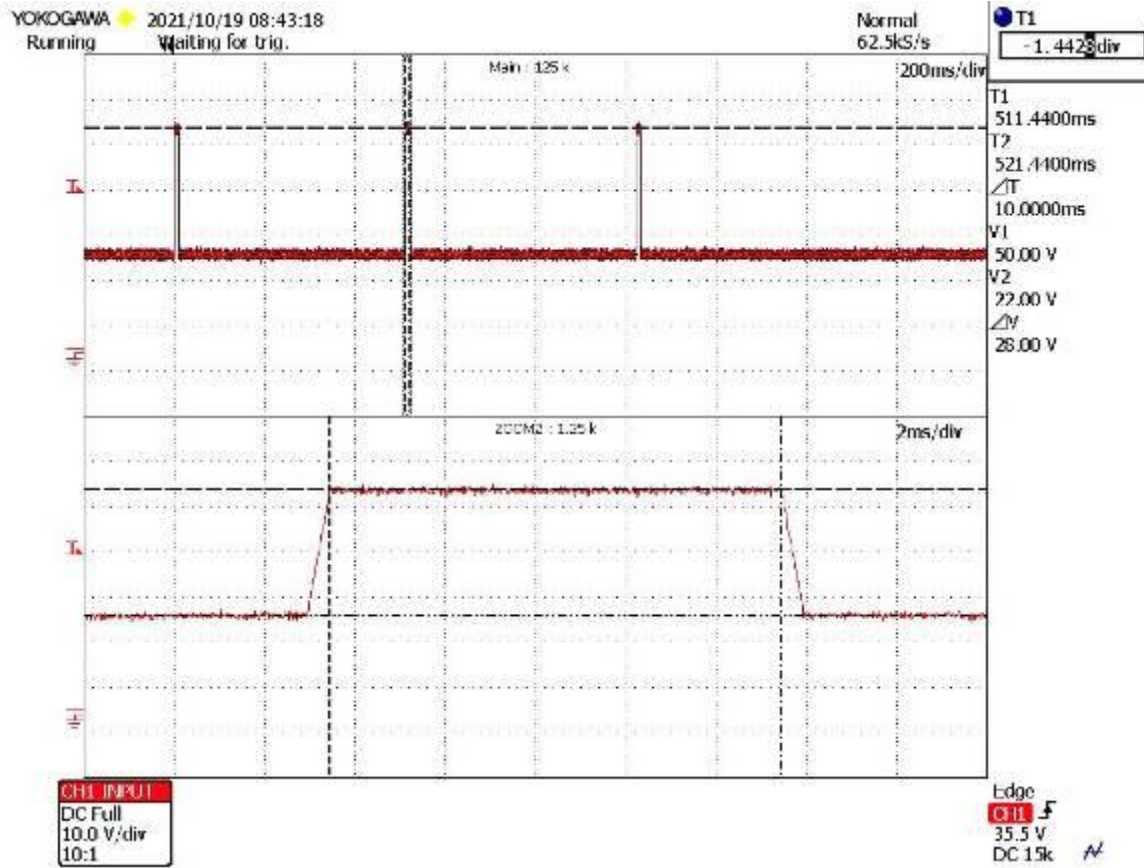


Figure E-67: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, second transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

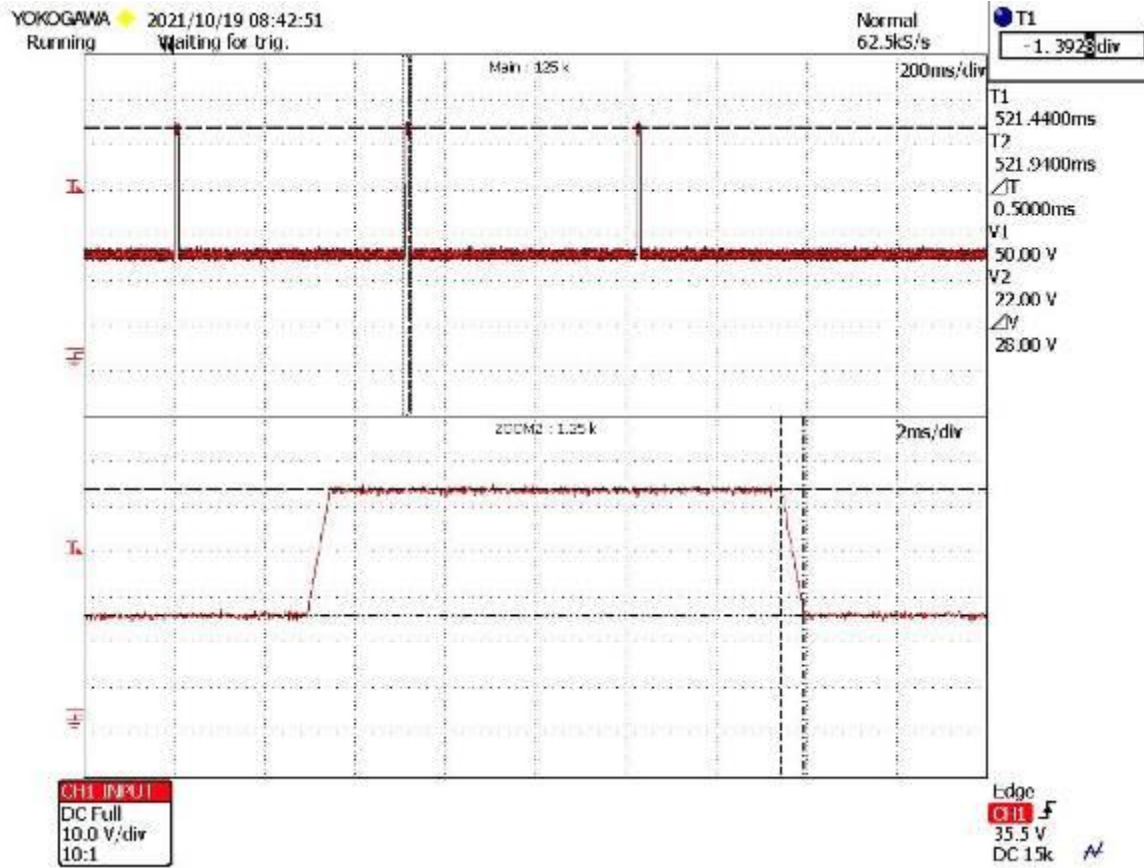


Figure E-68: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

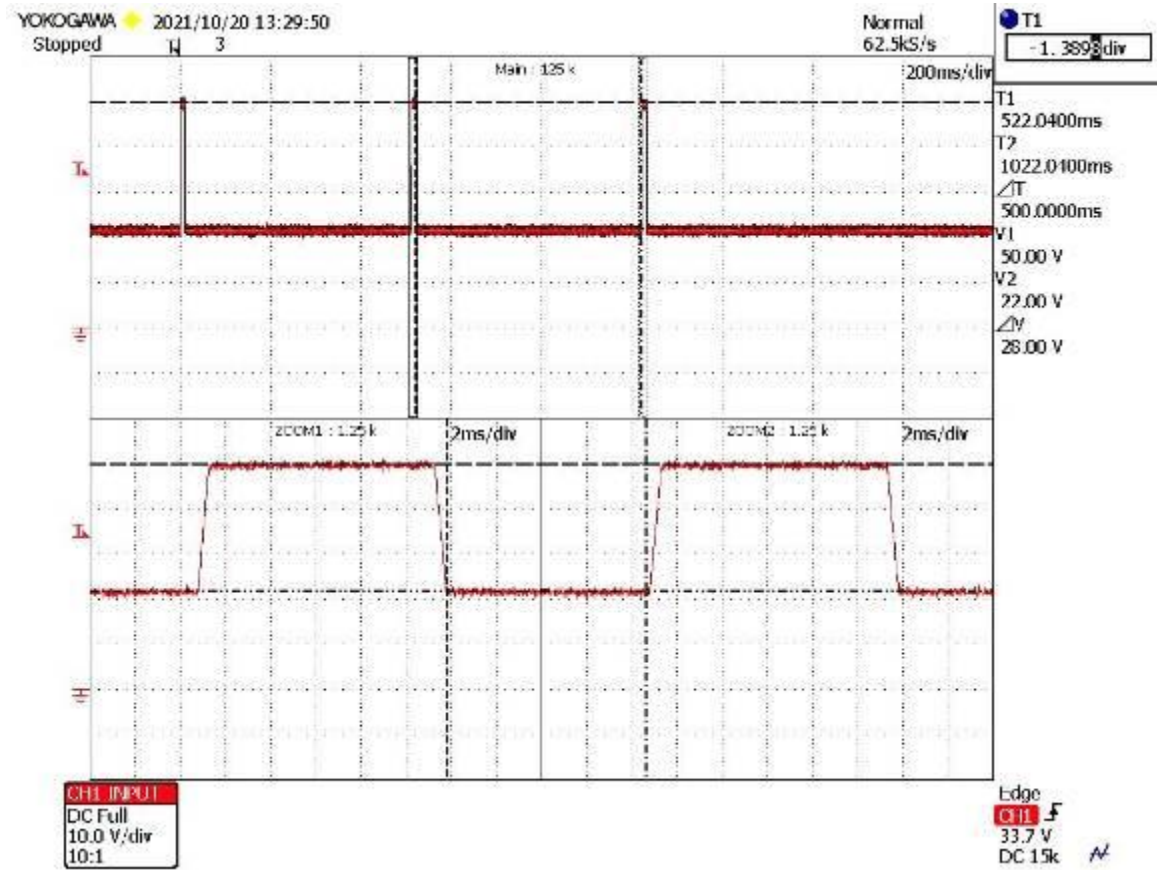


Figure E-69: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, second transient to third transient delay time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

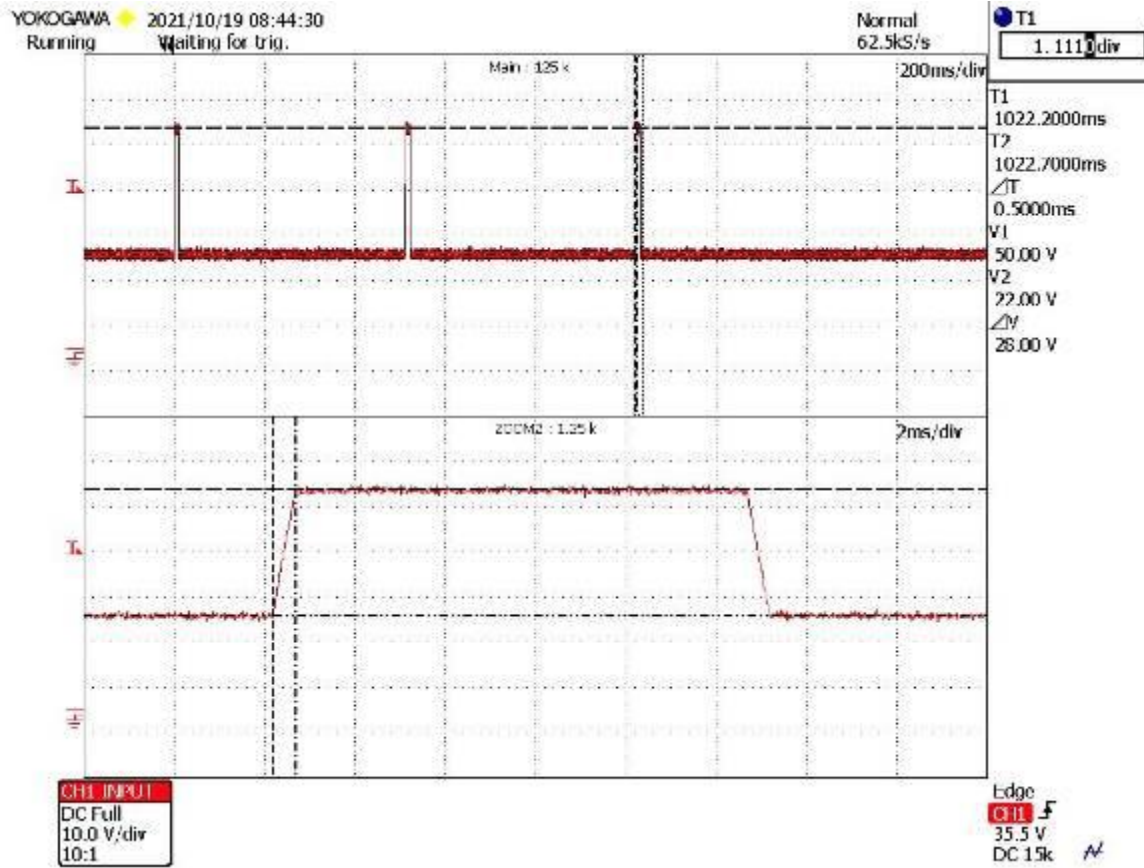


Figure E-70: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, third transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

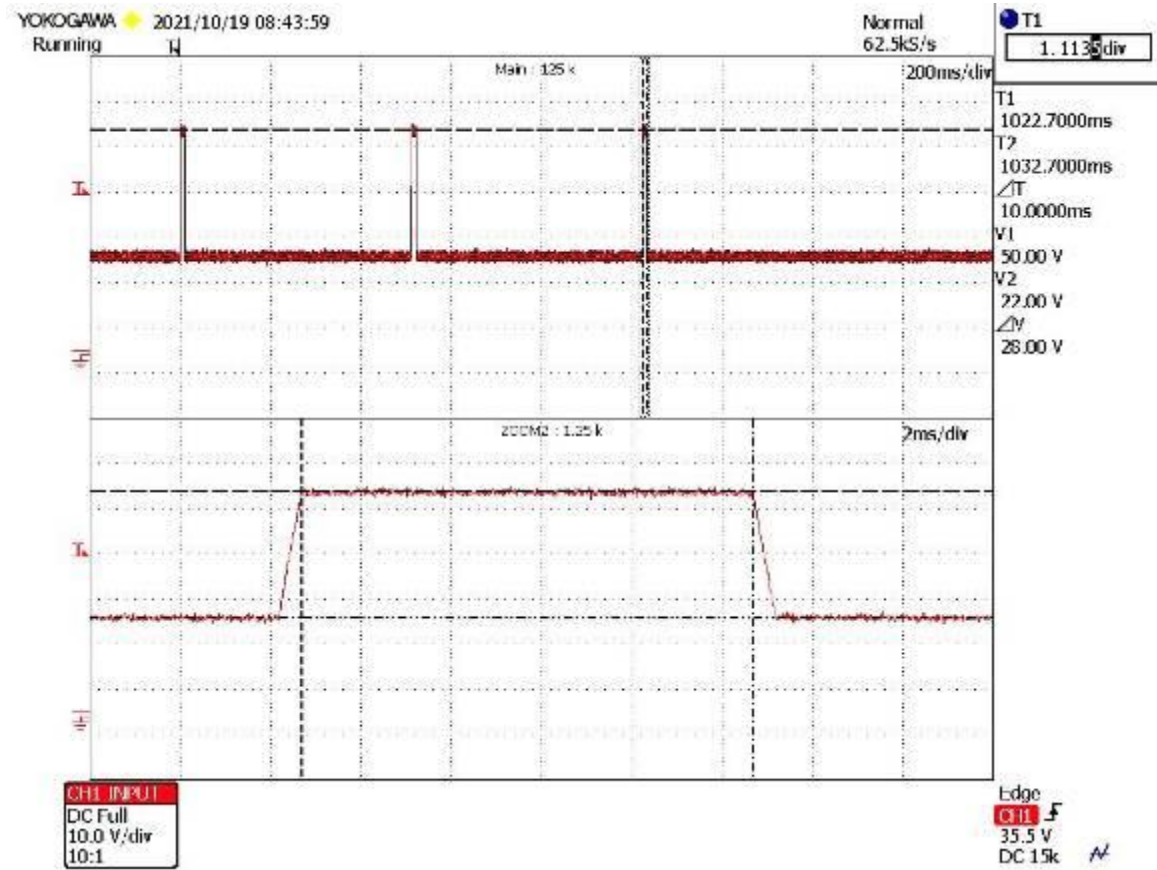


Figure E-71: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, third transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

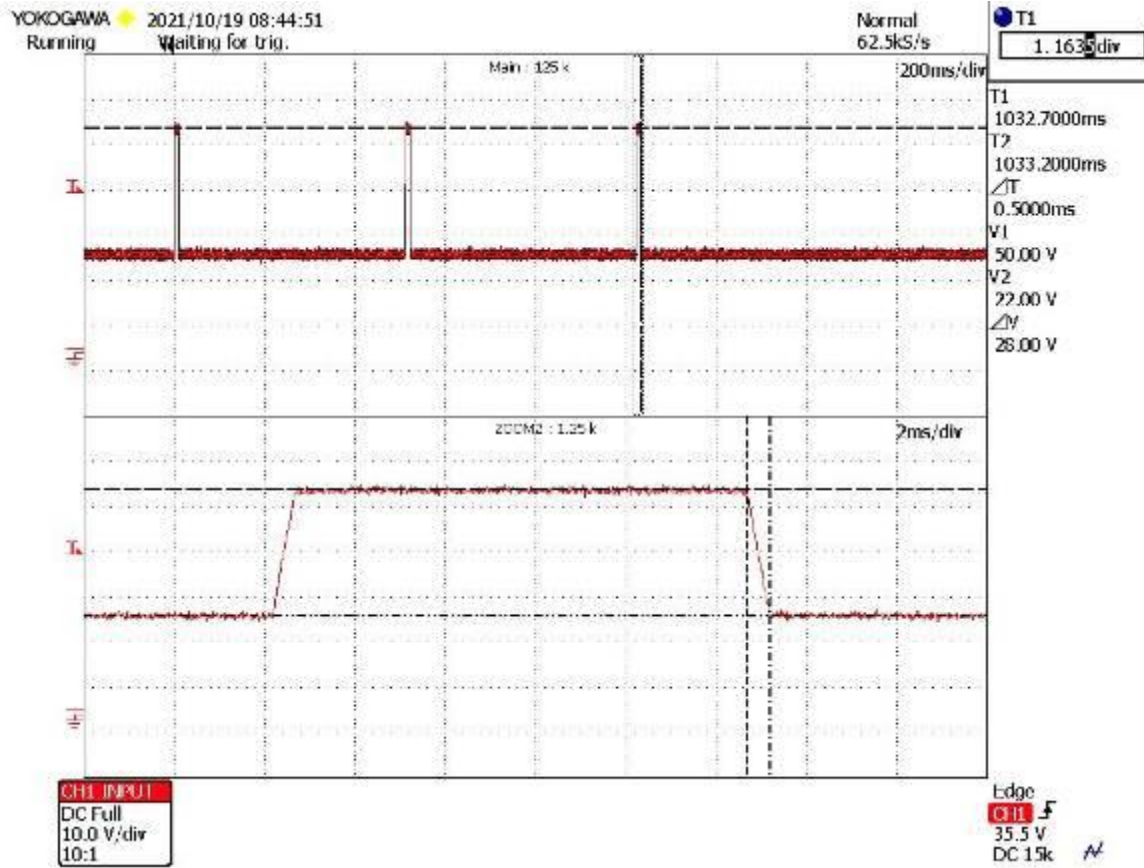


Figure E-72: LDC105, Condition JJ, 3 times every 0.5 sec, waveform verification, third transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

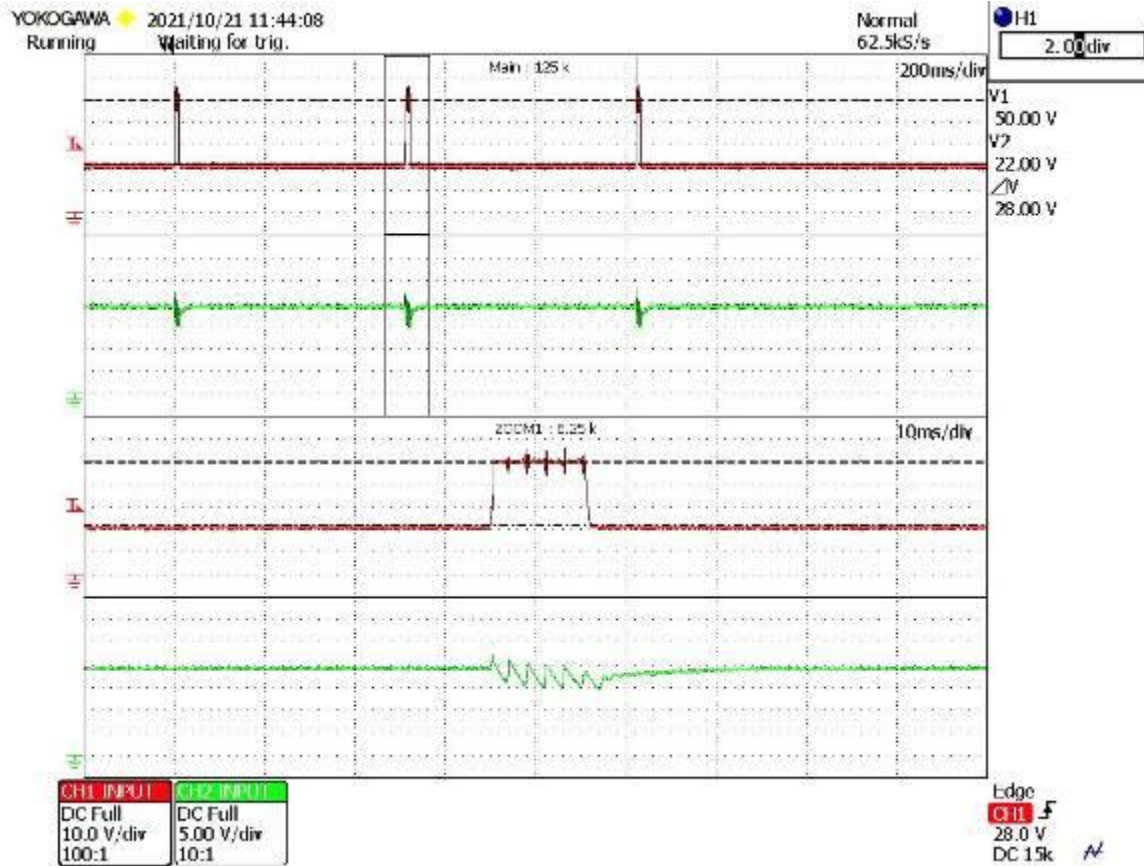


Figure E-73: LDC105, Condition JJ, 3 times every 0.5 sec, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

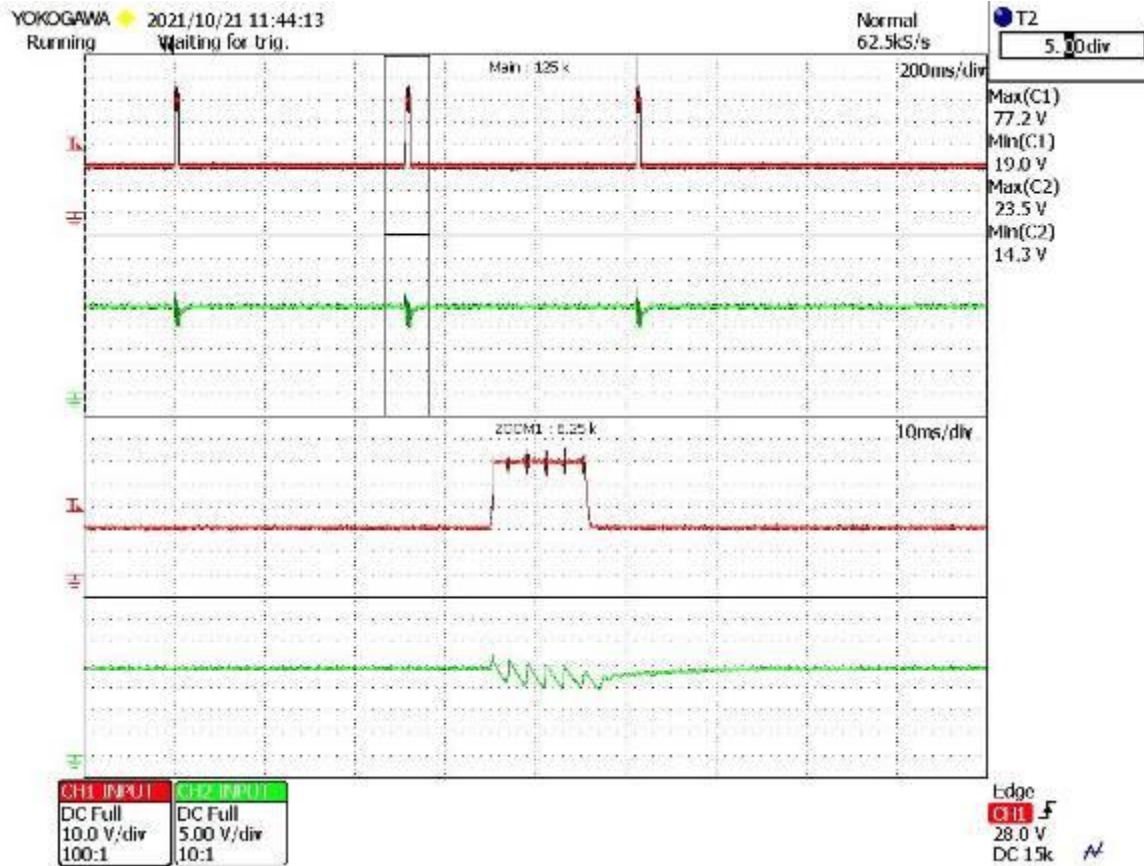


Figure E-74: LDC105, Condition JJ, 3 times every 0.5 sec, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

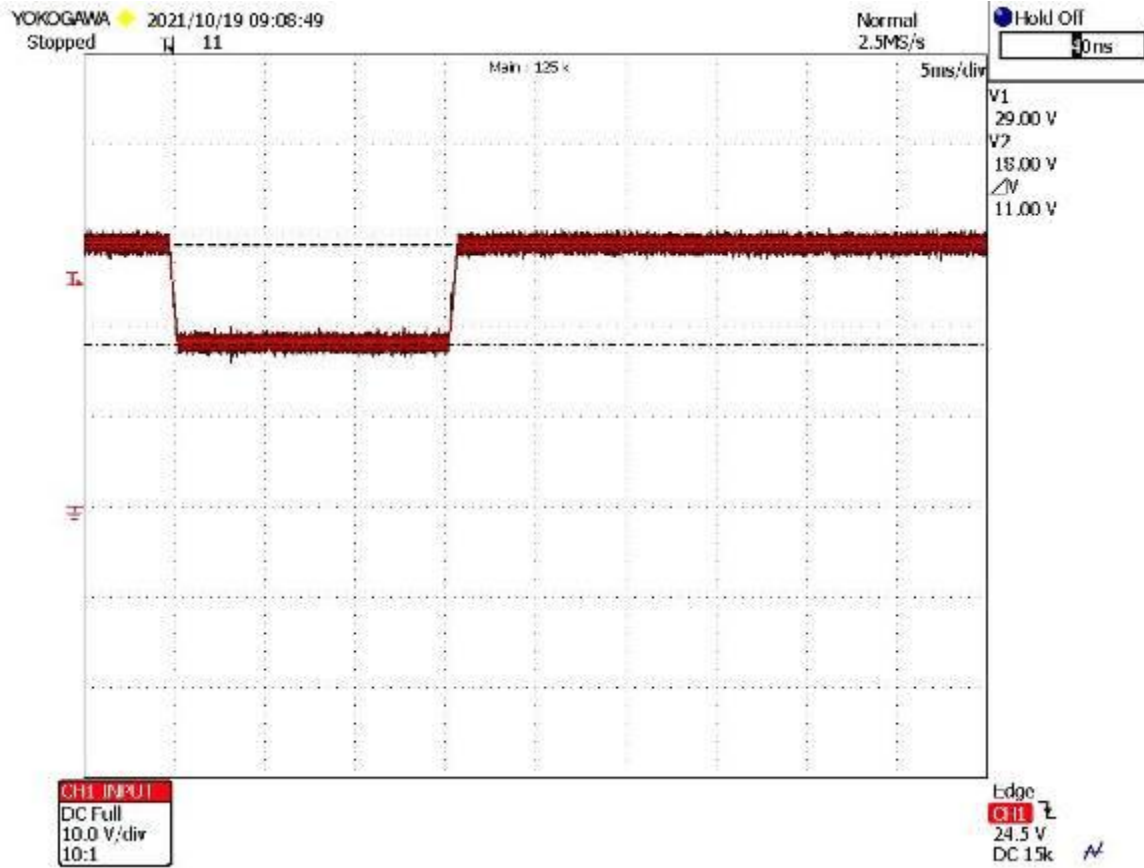


Figure E-75: LDC105, Condition KK, waveform verification, steady state and transient

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

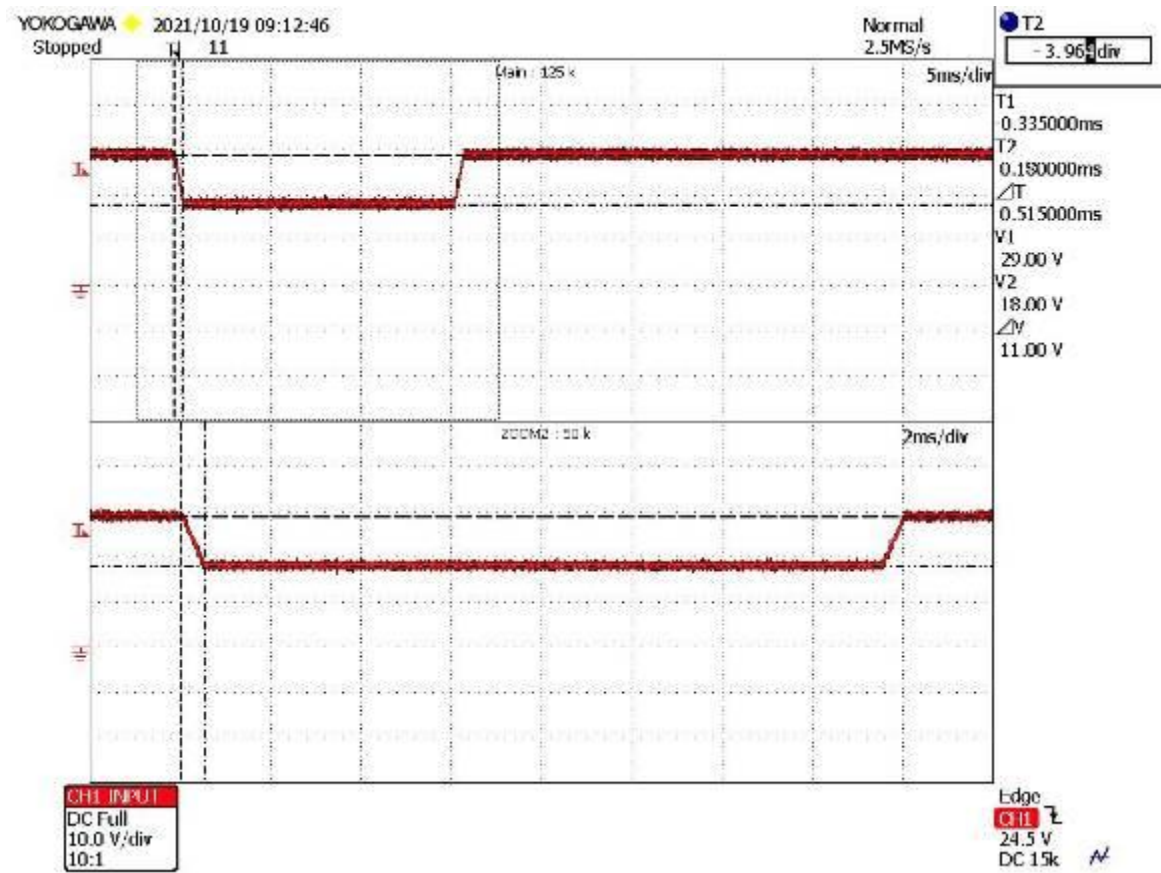


Figure E-76: LDC105, Condition KK, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

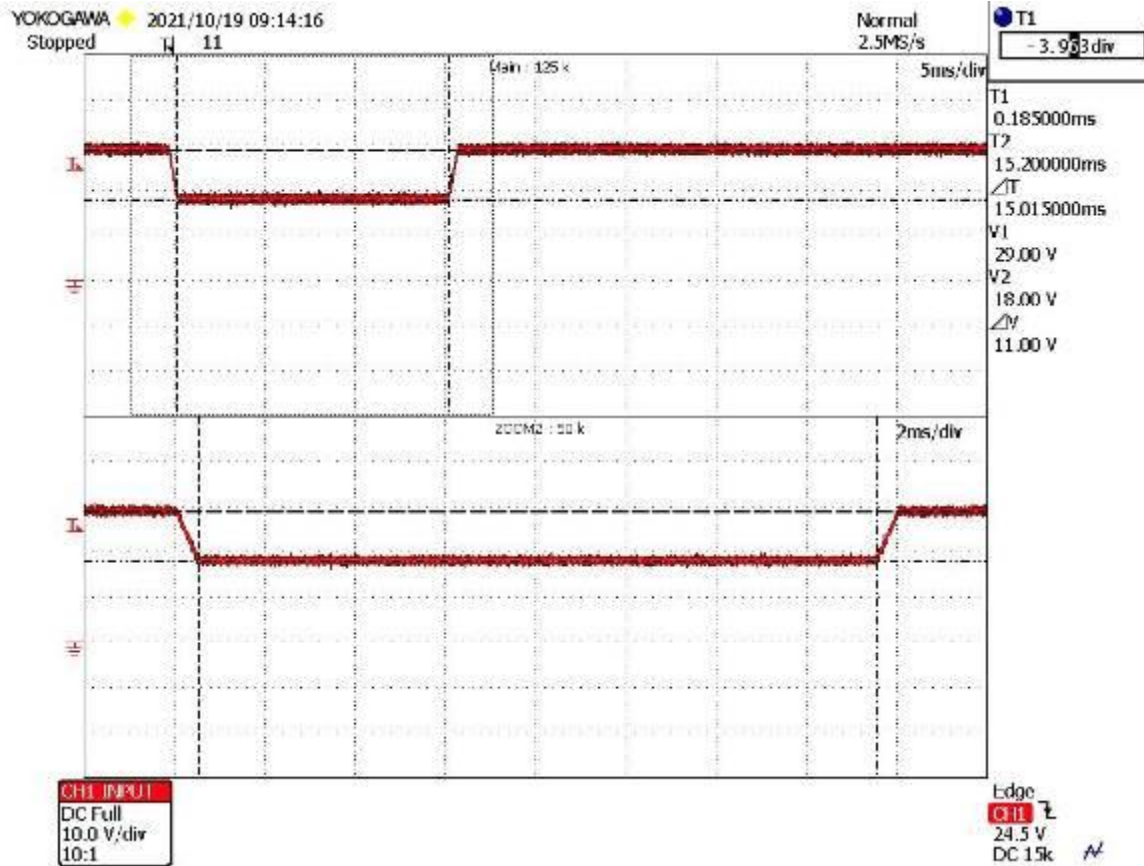


Figure E-77: LDC105, Condition KK, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

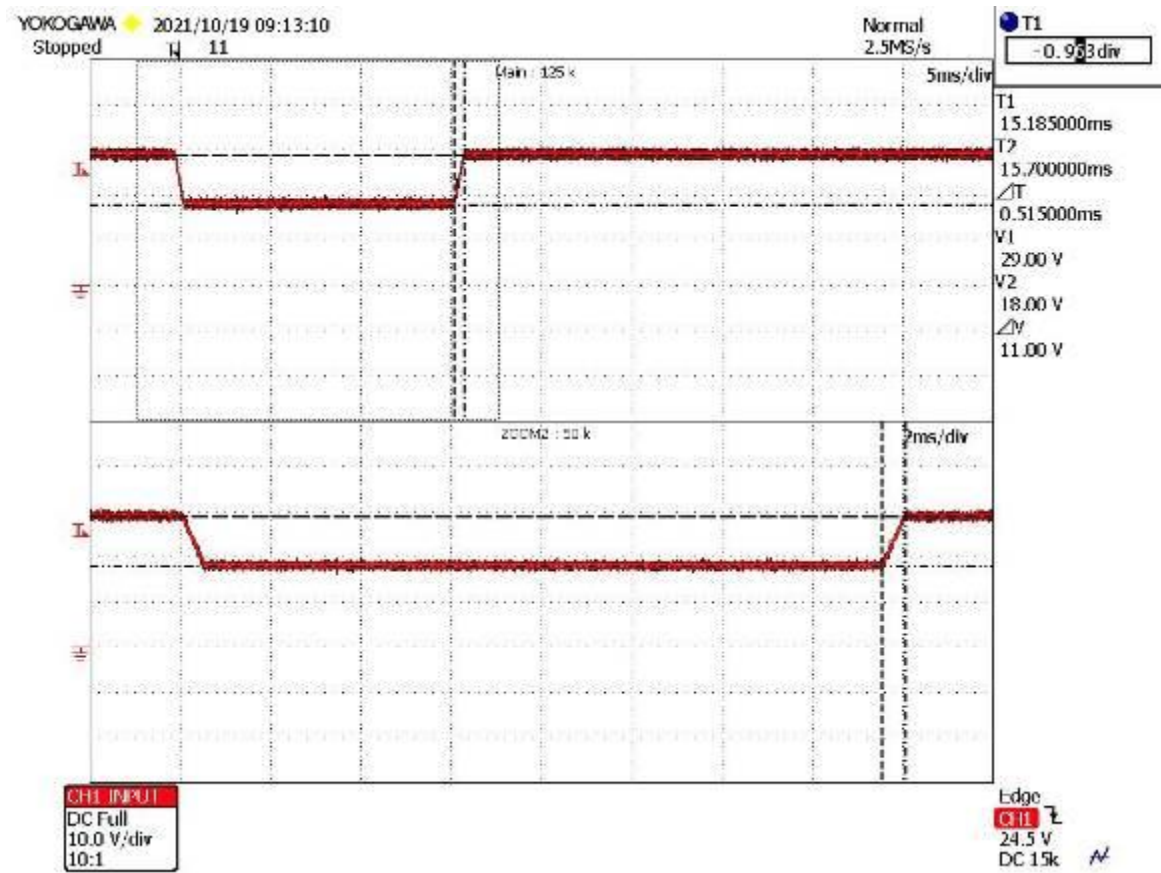


Figure E-78: LDC105, Condition KK, waveform verification, transient rise time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

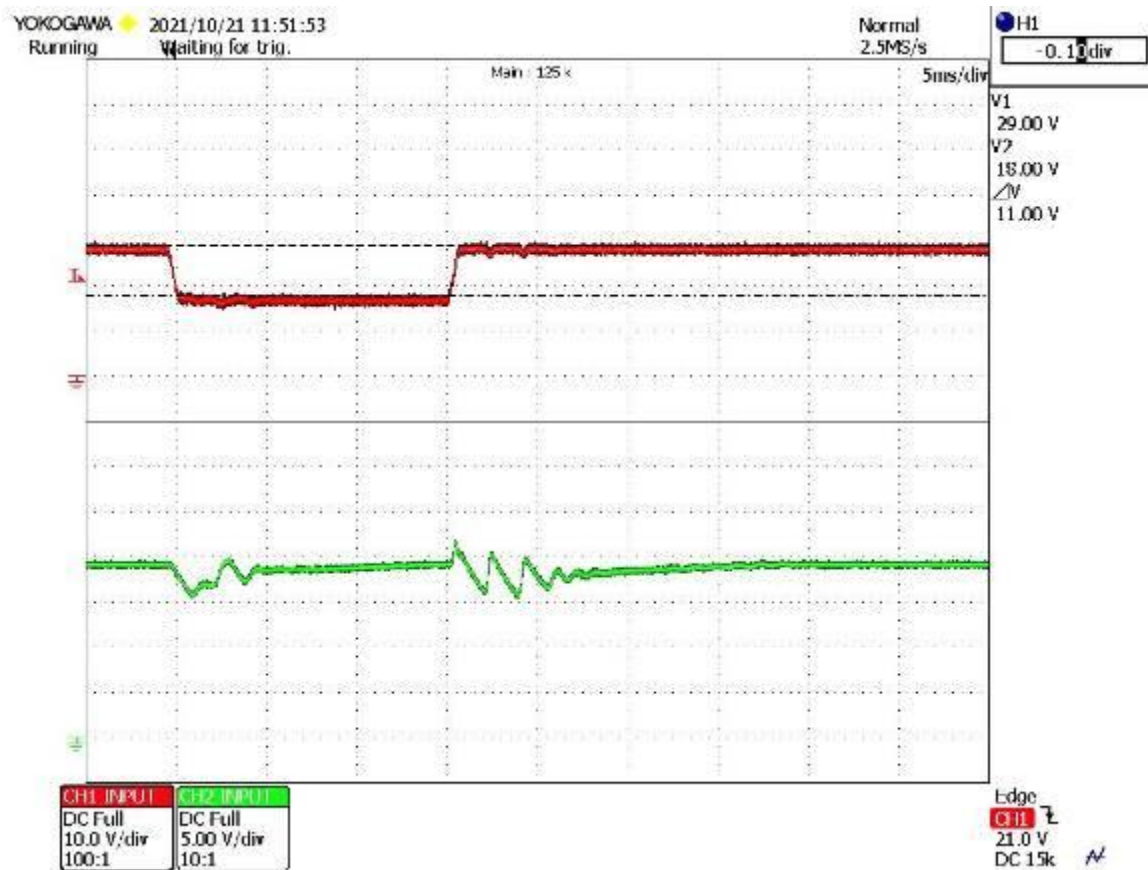


Figure E-79: LDC105, Condition KK, test application with cursor amplitude measurement

Red trace = input voltage

Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

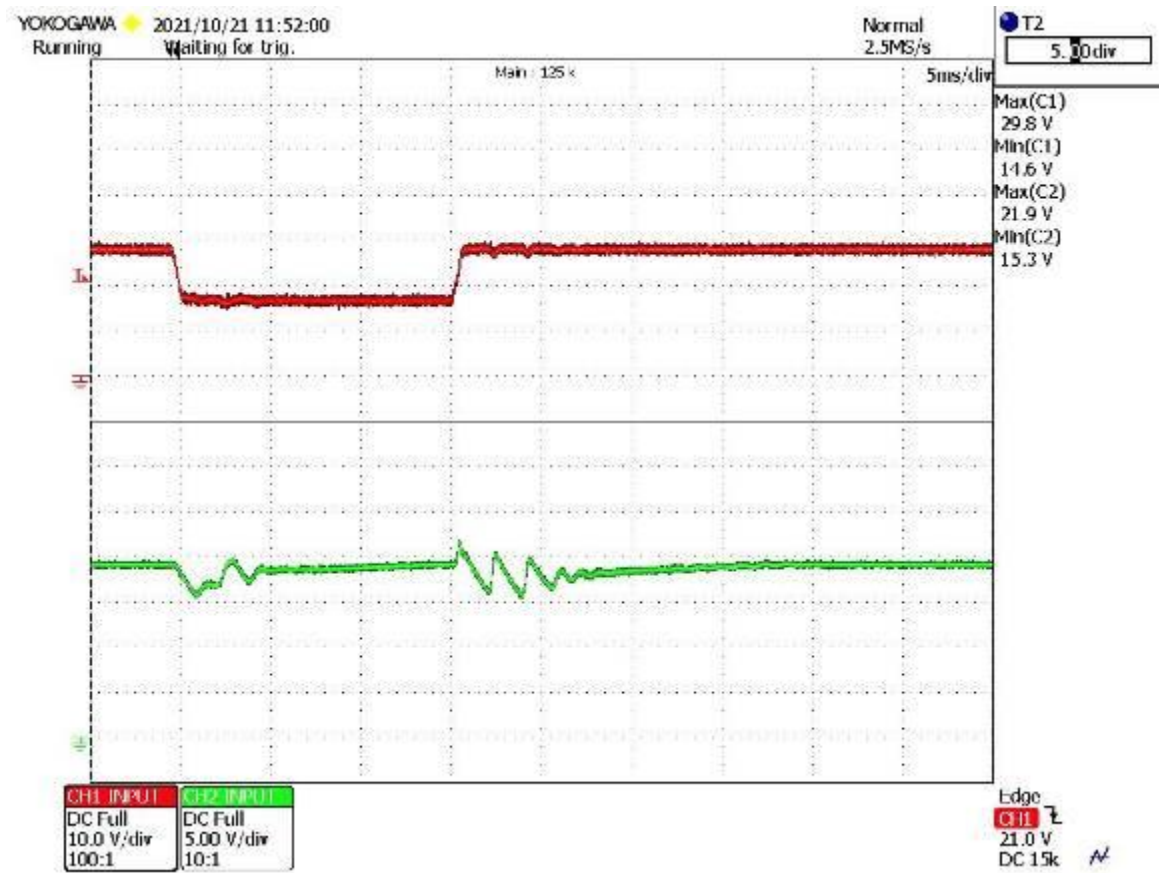


Figure E-80: LDC105, Condition KK, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

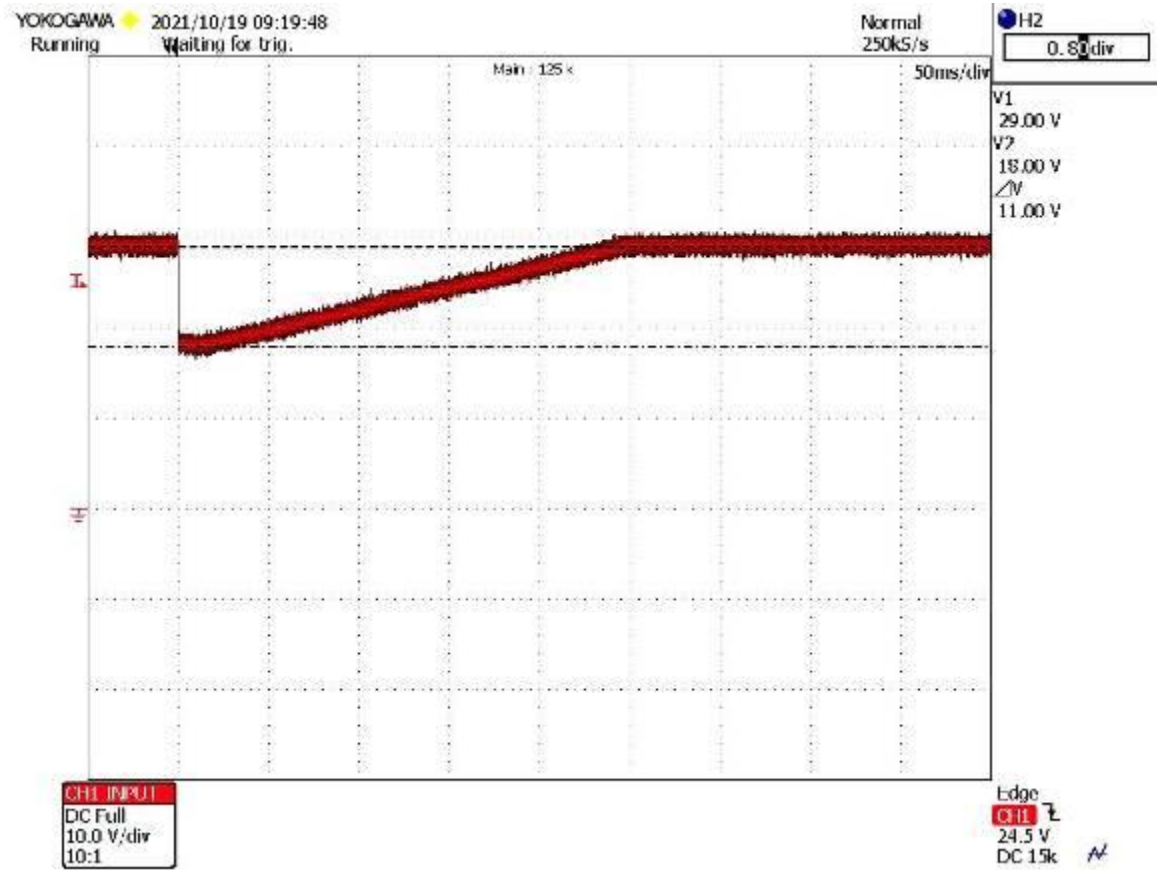
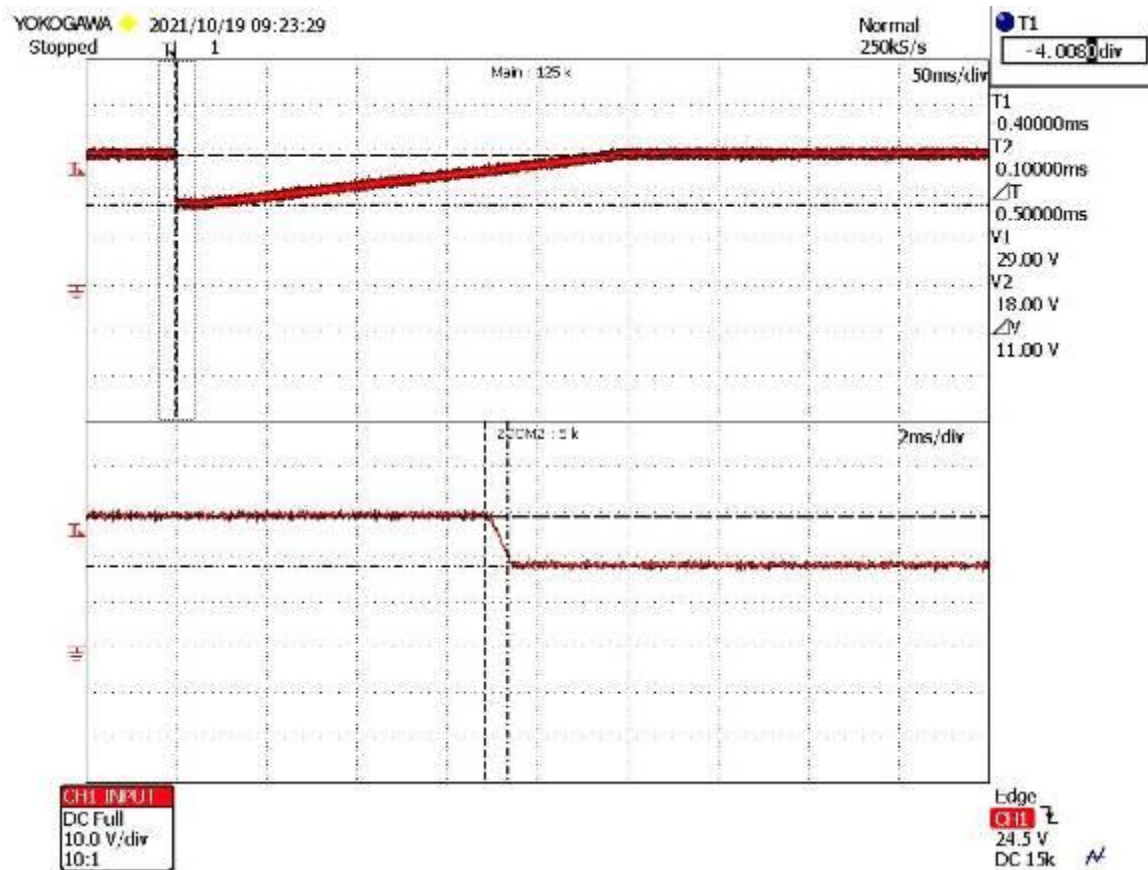


Figure E-81: LDC105, Condition LL, waveform verification, steady state and transient

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

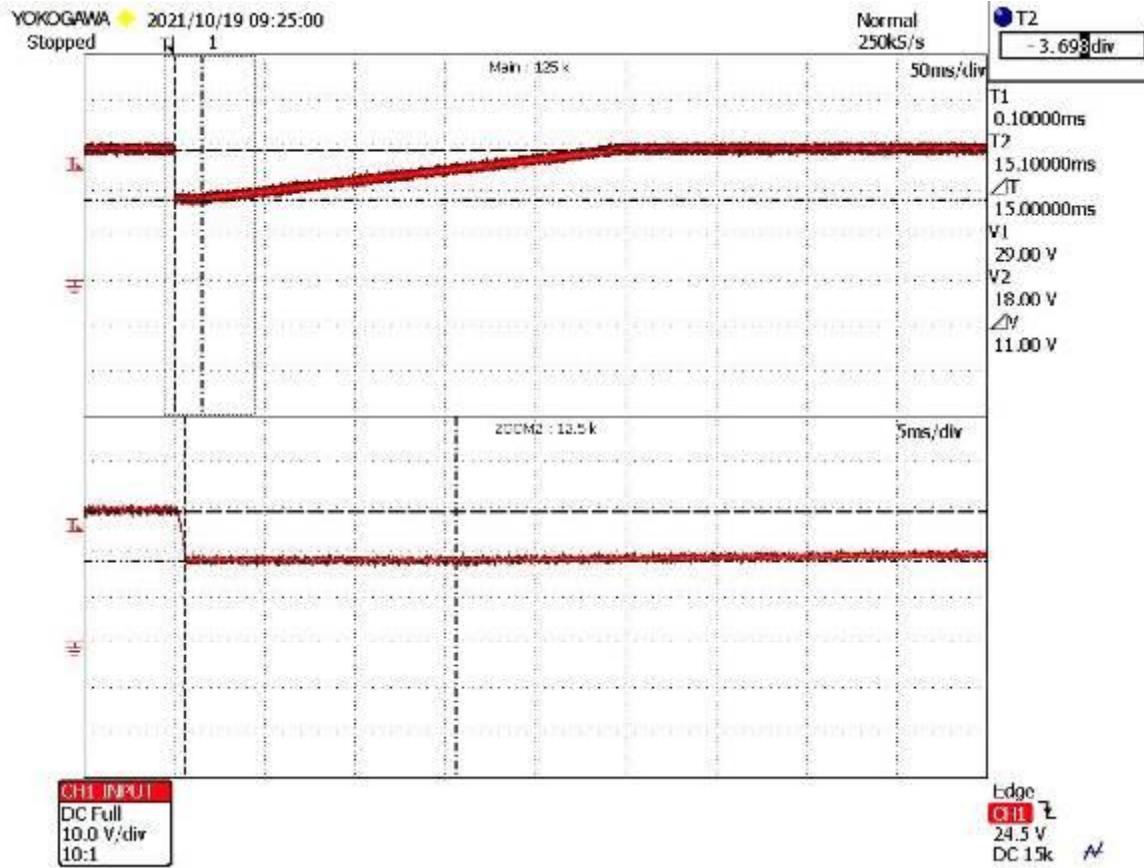


Figure E-83: LDC105, Condition LL, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

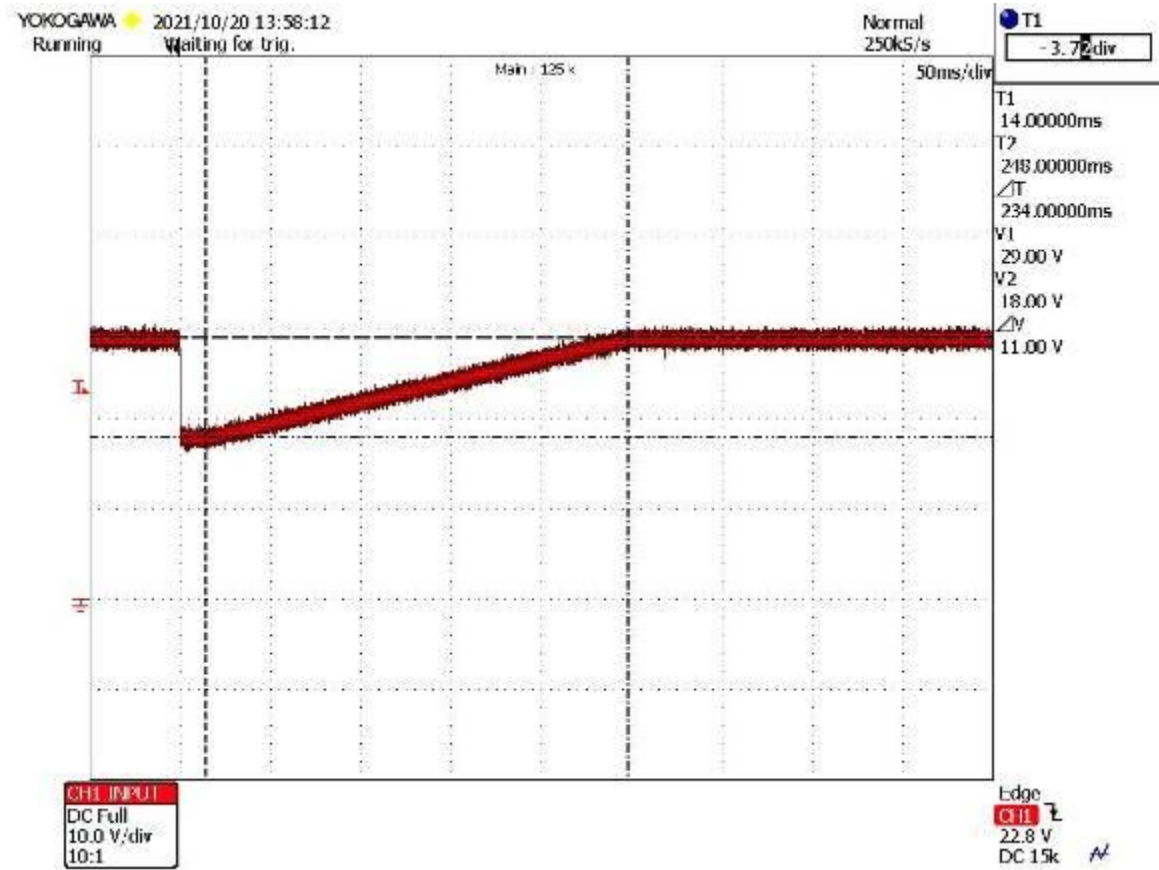


Figure E-84: LDC105, Condition LL, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

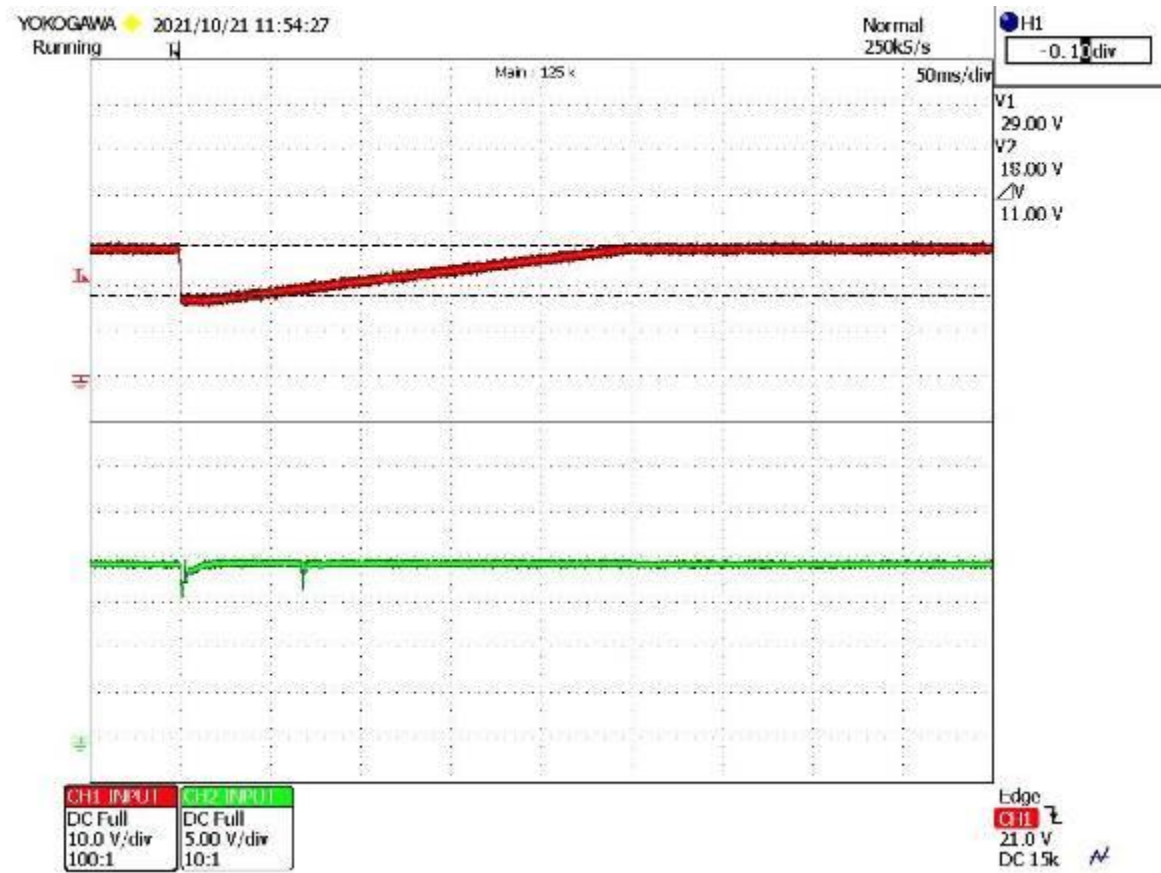


Figure E-85: LDC105, Condition LL, test application with cursor amplitude measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

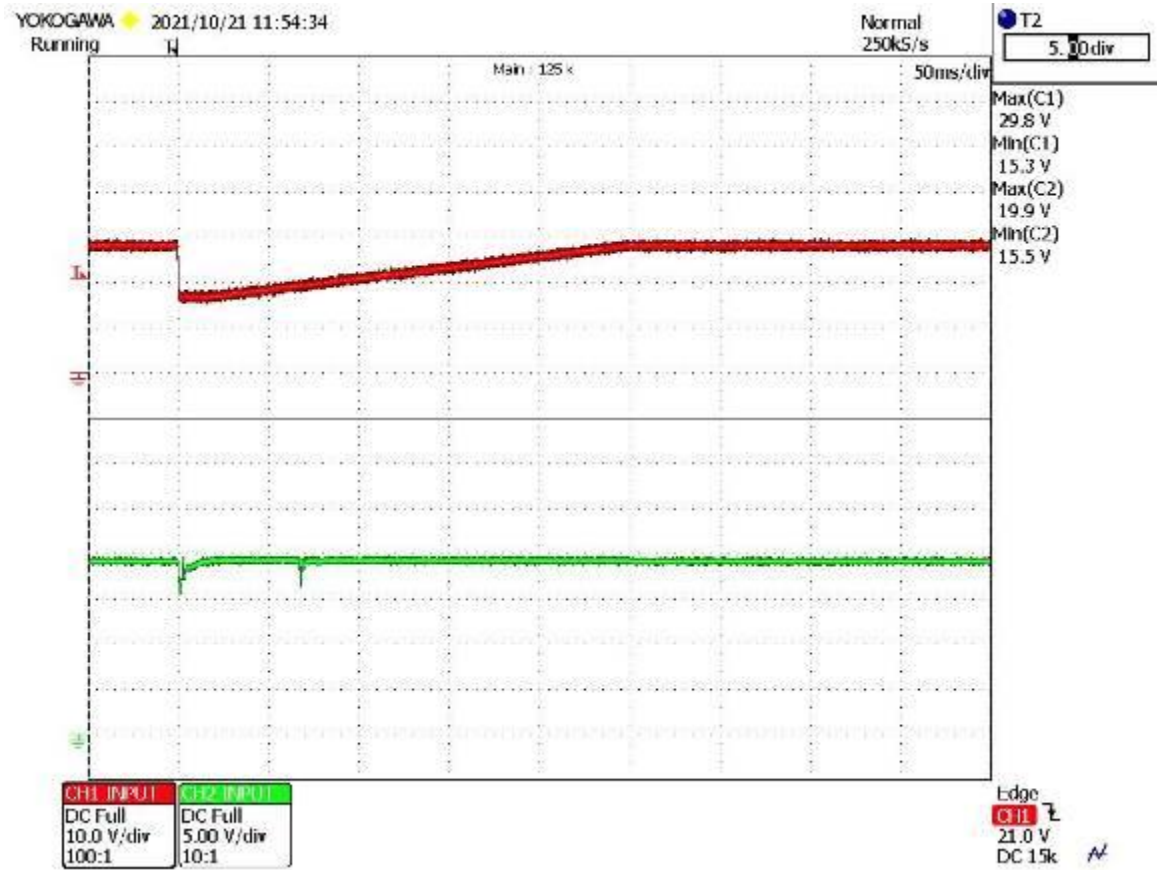


Figure E-86: LDC105, Condition LL, test application with minimum and maximum measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

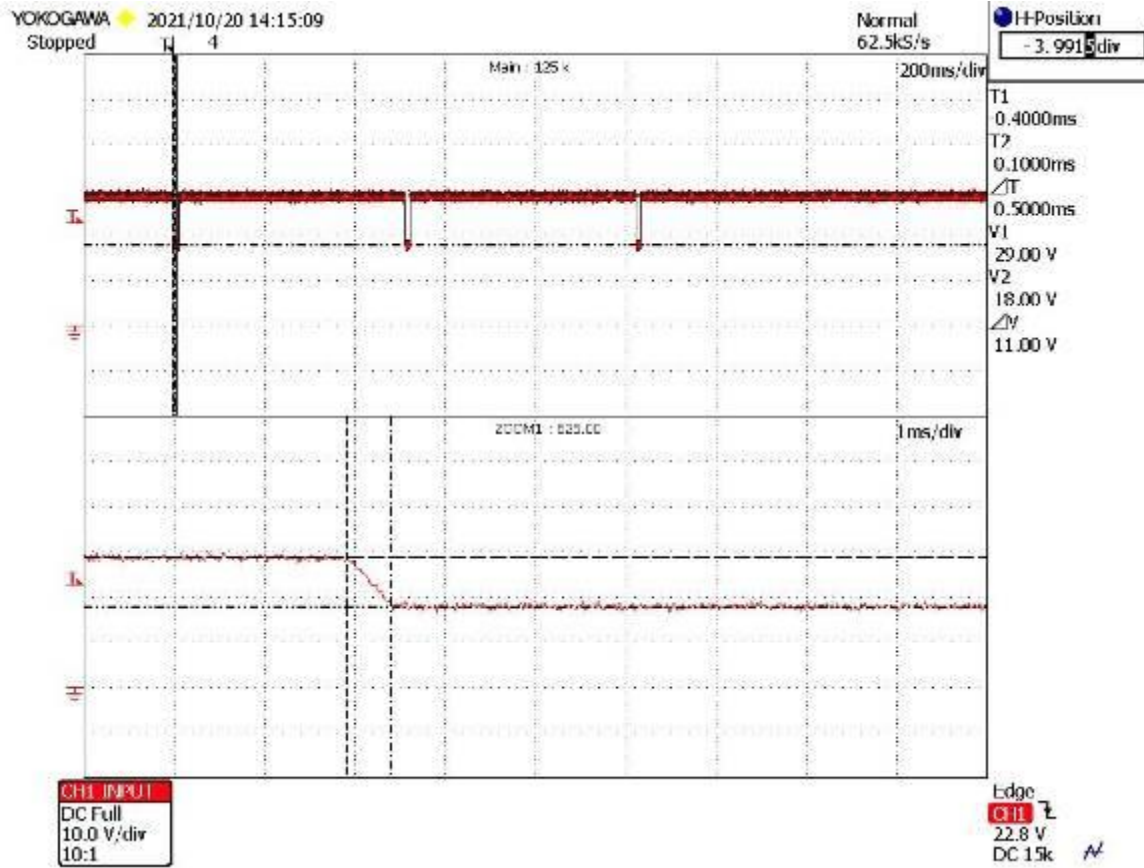


Figure E-87: LDC105, Condition MM, waveform verification, steady state and first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

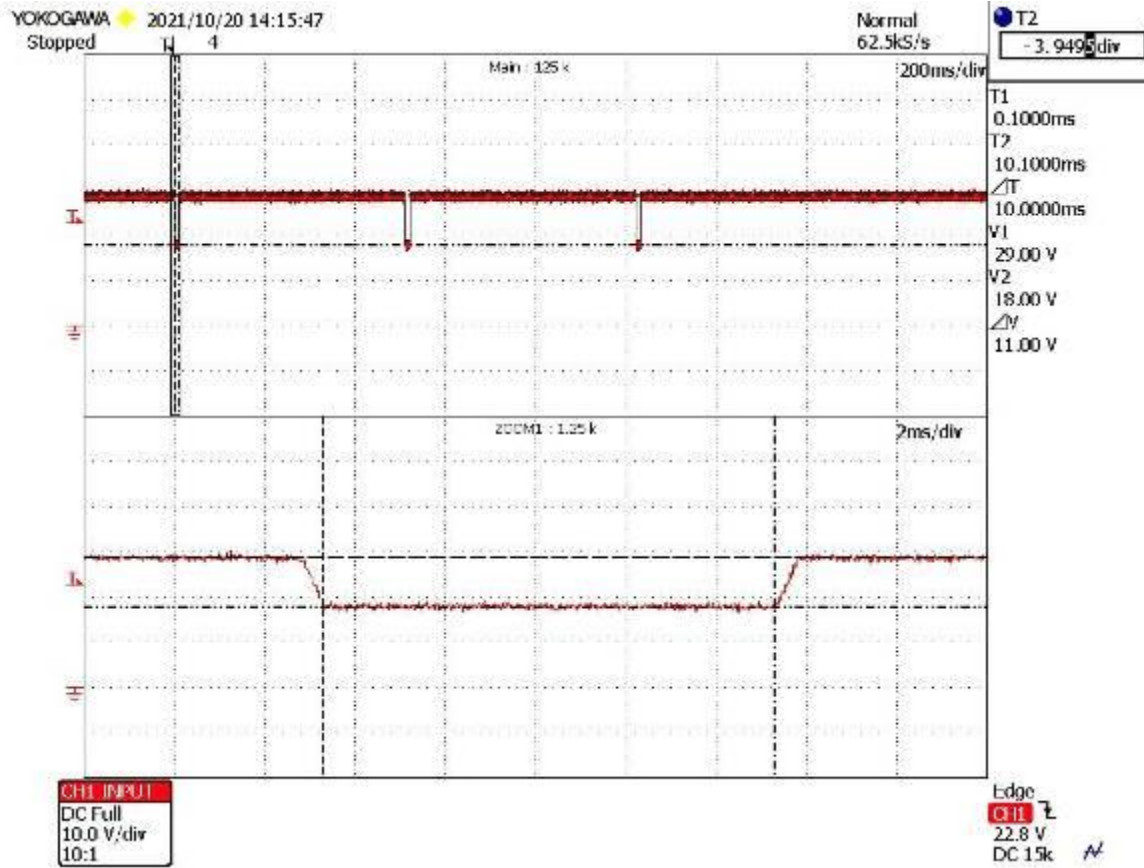


Figure E-88: LDC105, Condition MM, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

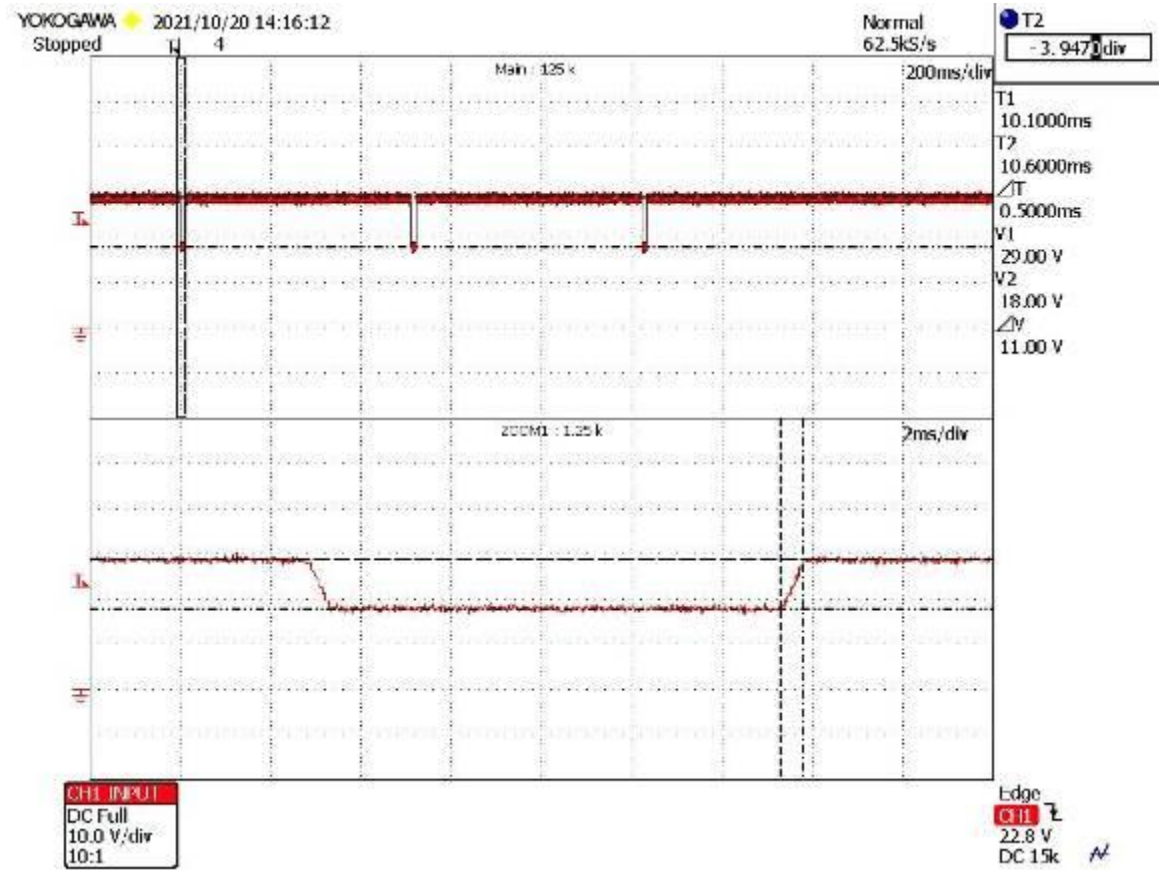


Figure E-89: LDC105, Condition MM, waveform verification, first transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

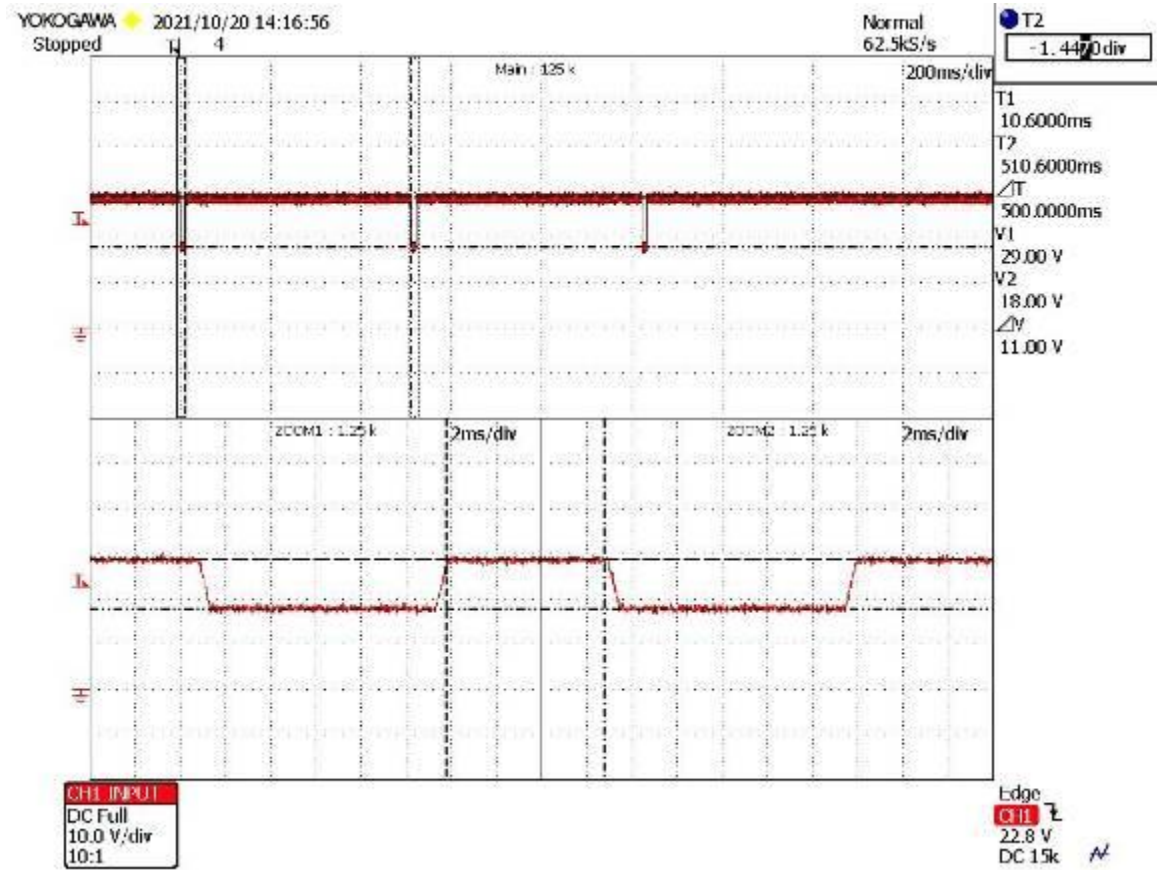


Figure E-90: LDC105, Condition MM, waveform verification, first transient to second transient delay

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

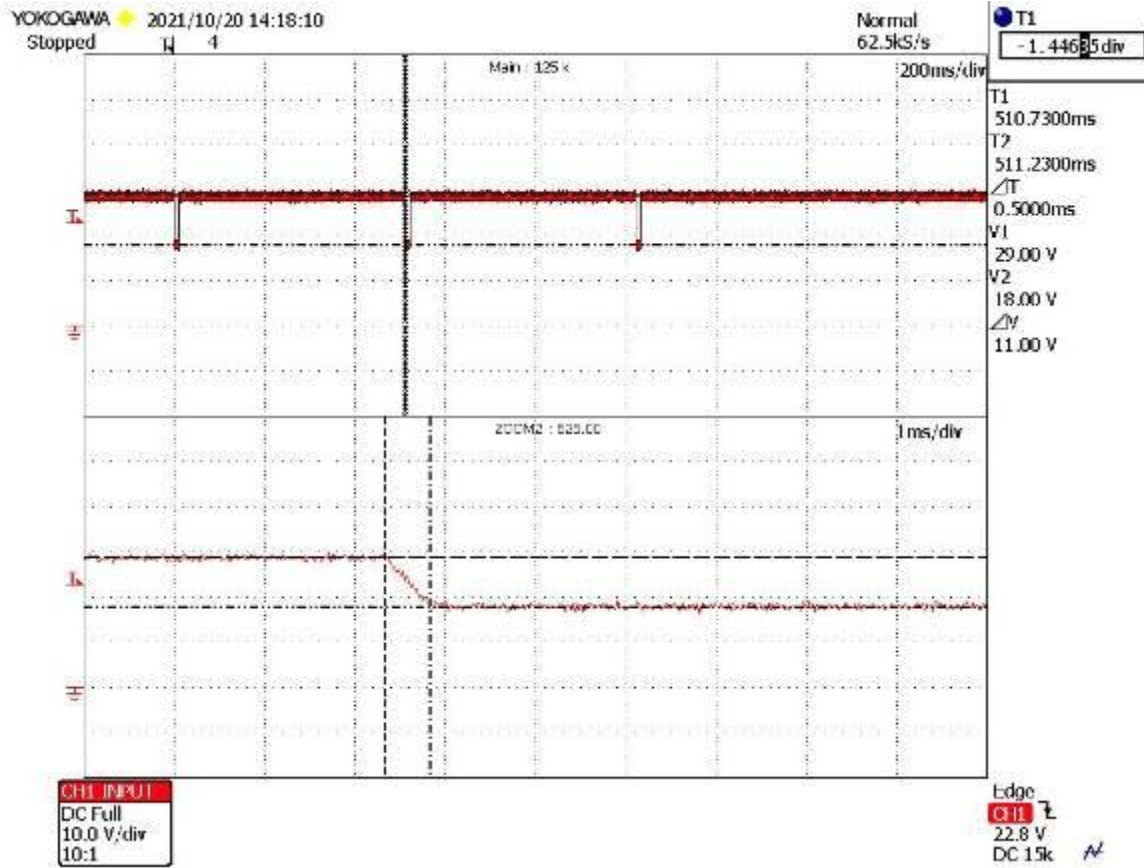


Figure E-91: LDC105, Condition MM, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

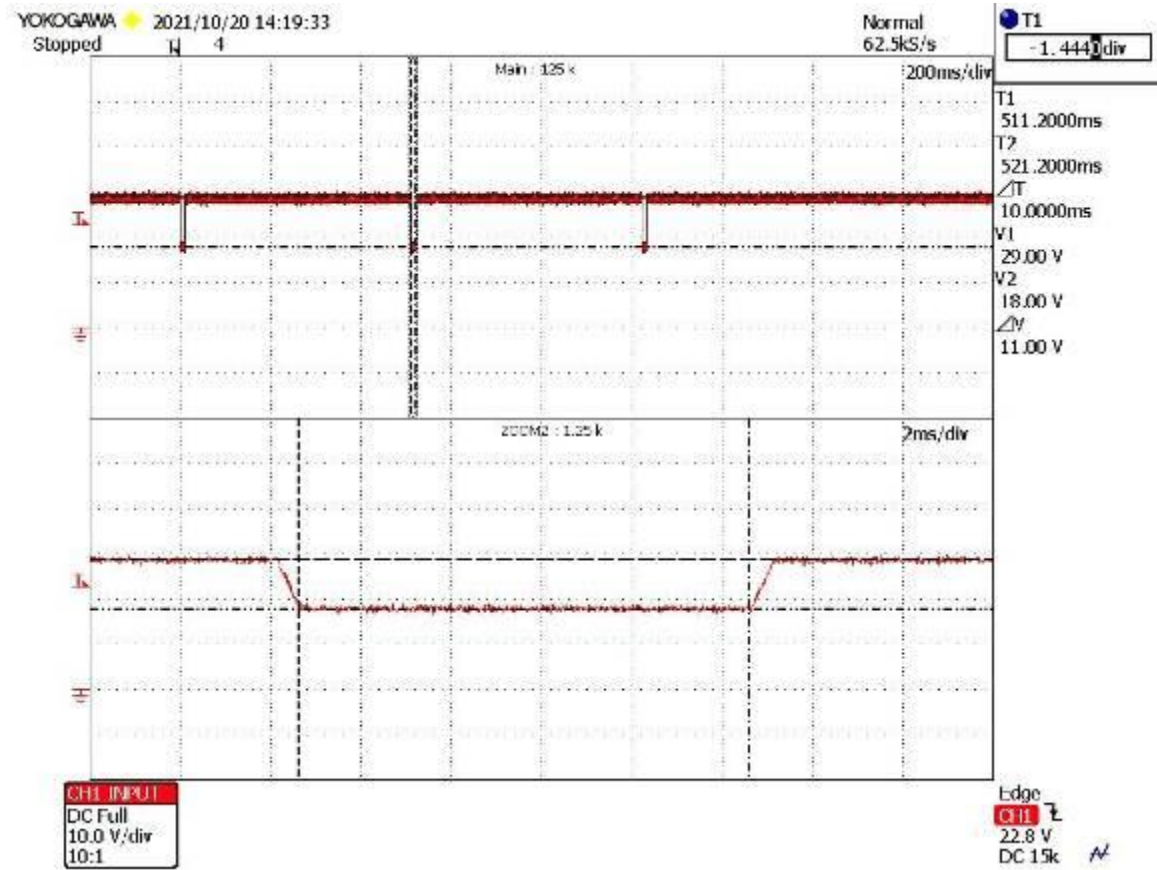


Figure E-92: LDC105, Condition MM, waveform verification, second transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

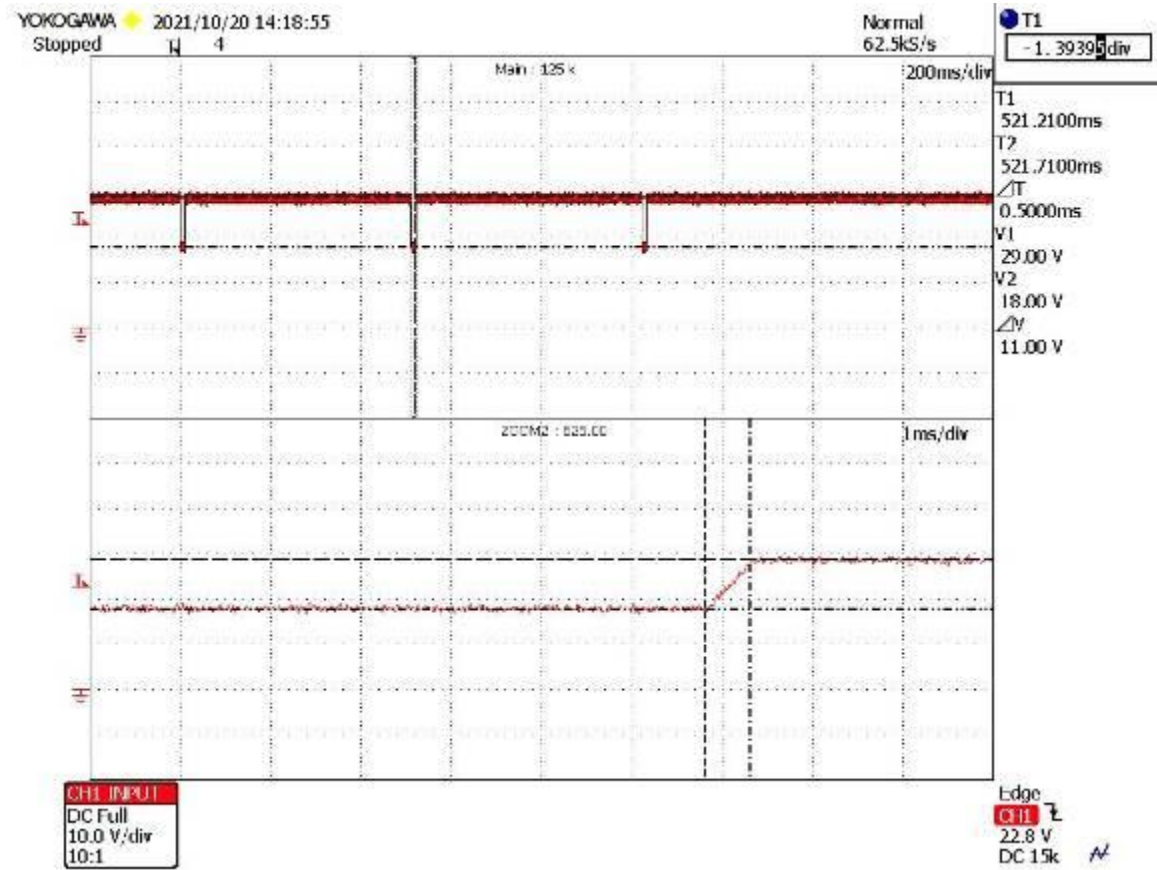


Figure E-93: LDC105, Condition MM, waveform verification, second transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

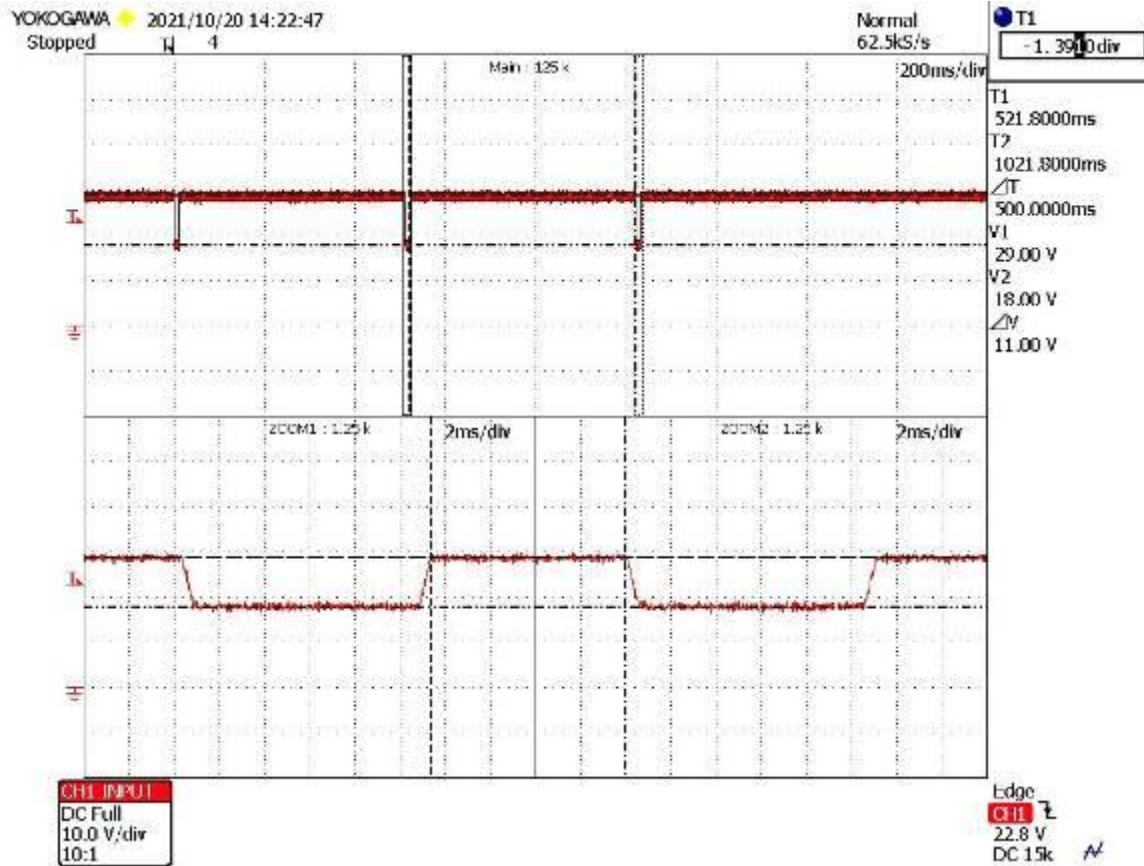


Figure E-94: LDC105, Condition MM, waveform verification, second transient to third transient delay

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

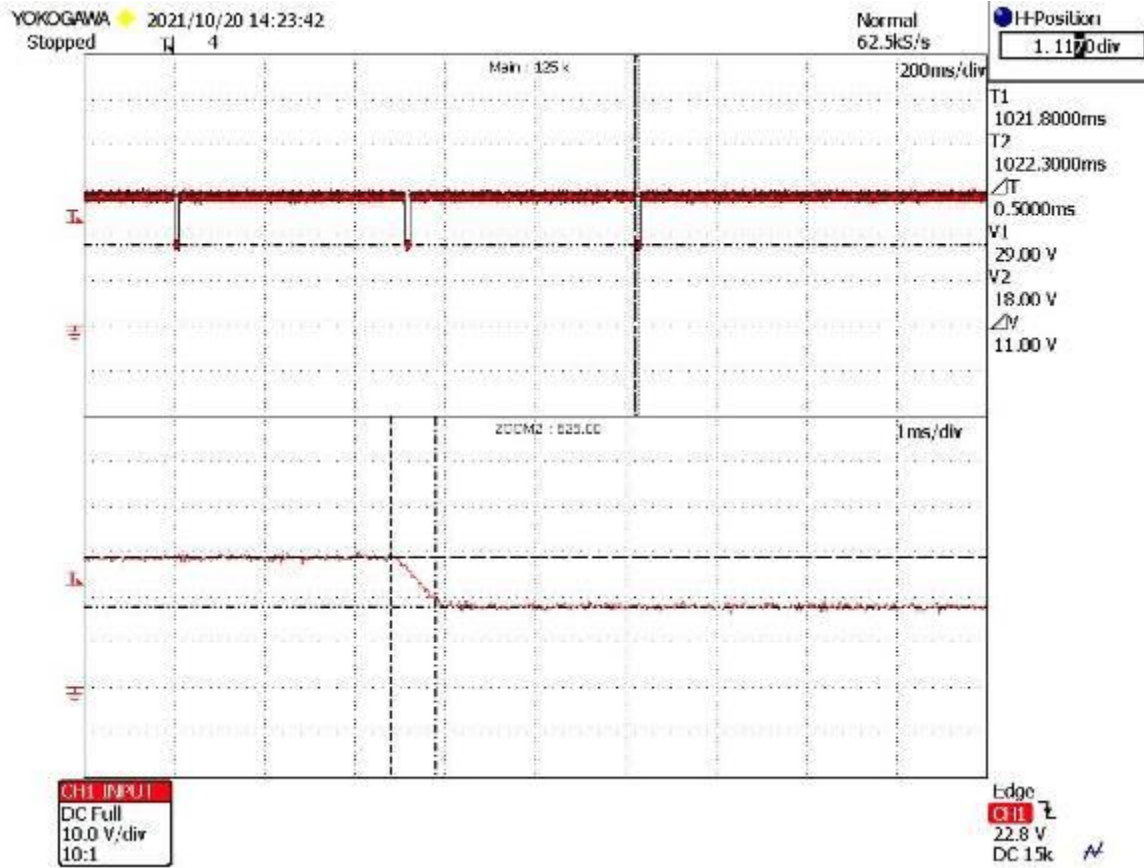


Figure E-95: LDC105, Condition MM, waveform verification, third transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

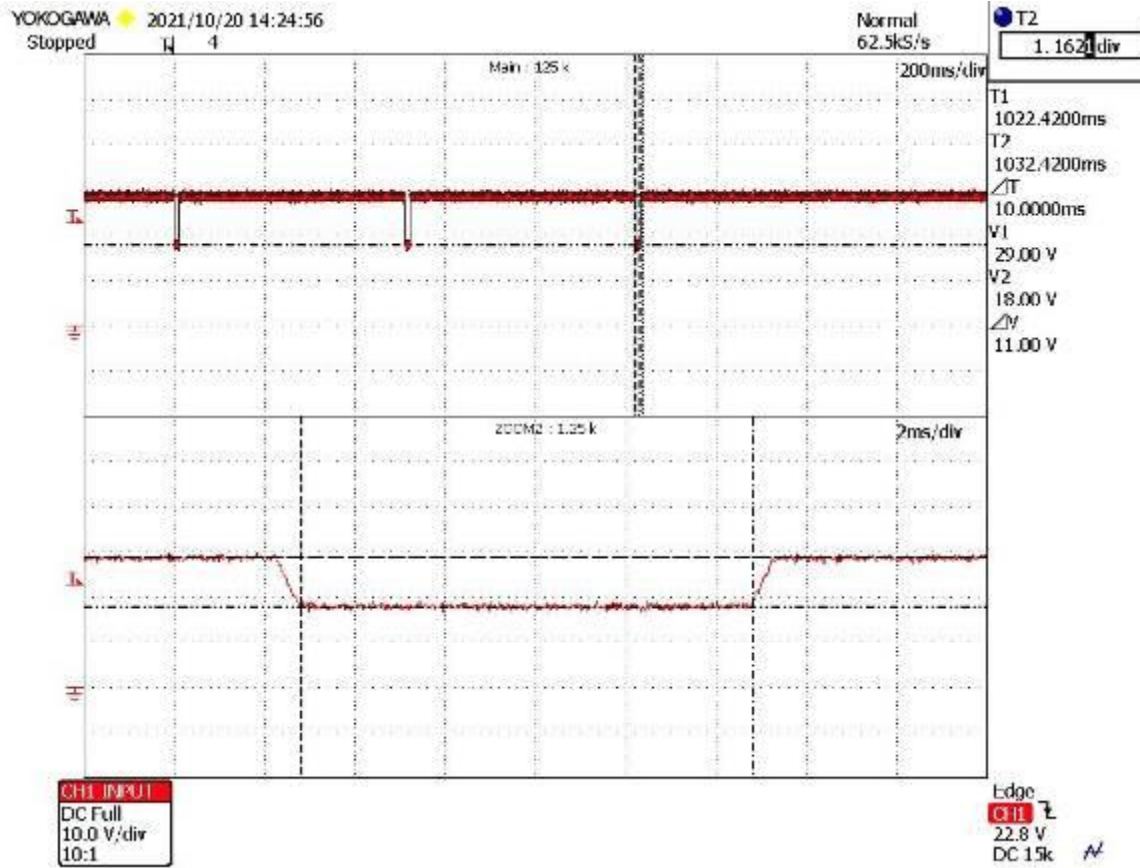


Figure E-96: LDC105, Condition MM, waveform verification, third transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

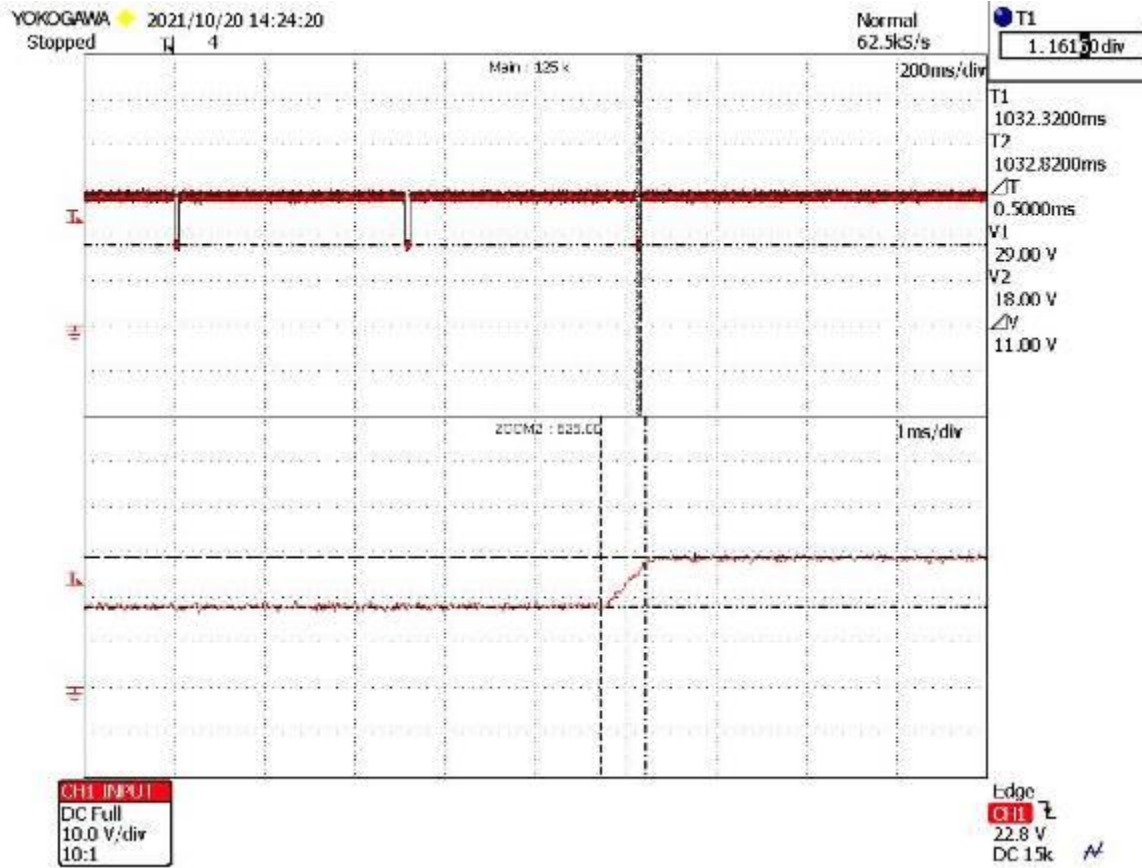


Figure E-97: LDC105, Condition MM, waveform verification, third transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

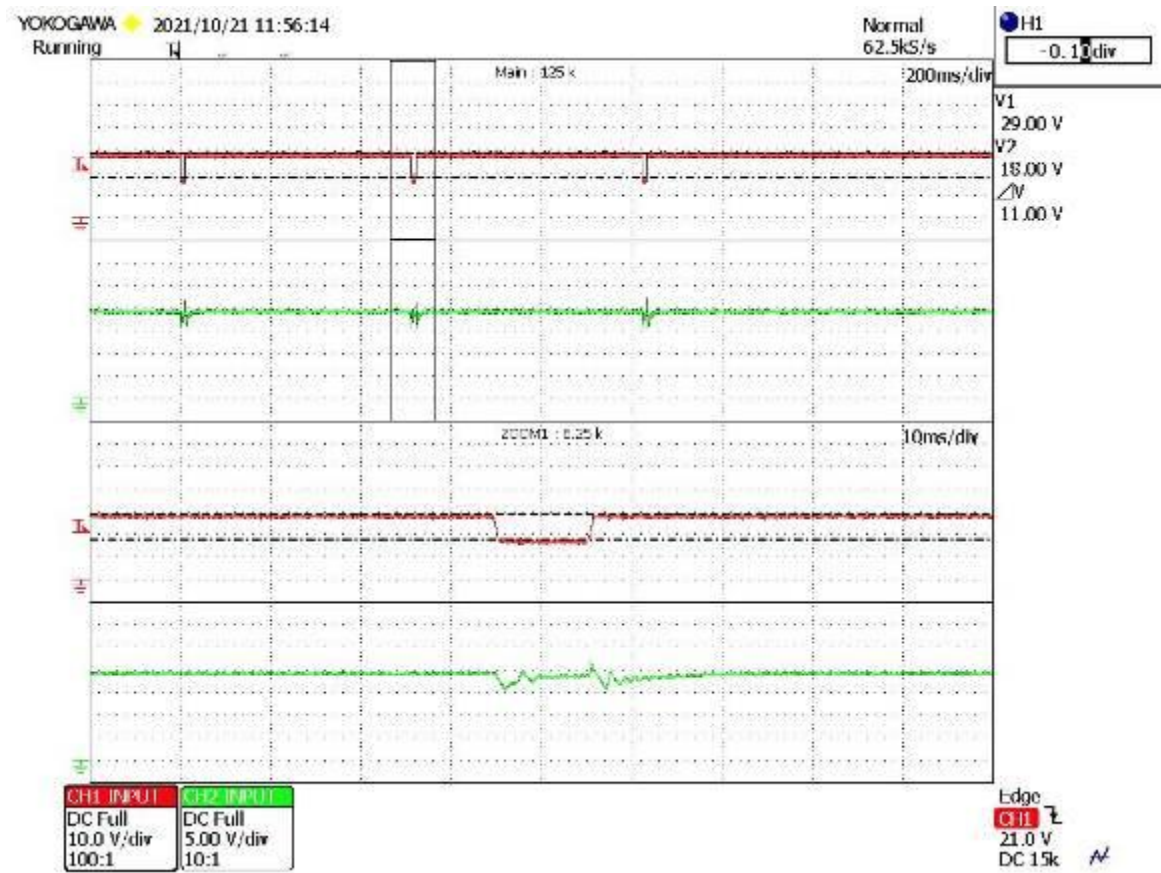


Figure E-98: LDC105, Condition MM, test application with cursor amplitude measurement

Red trace = input voltage
 Green trace = output voltage

Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

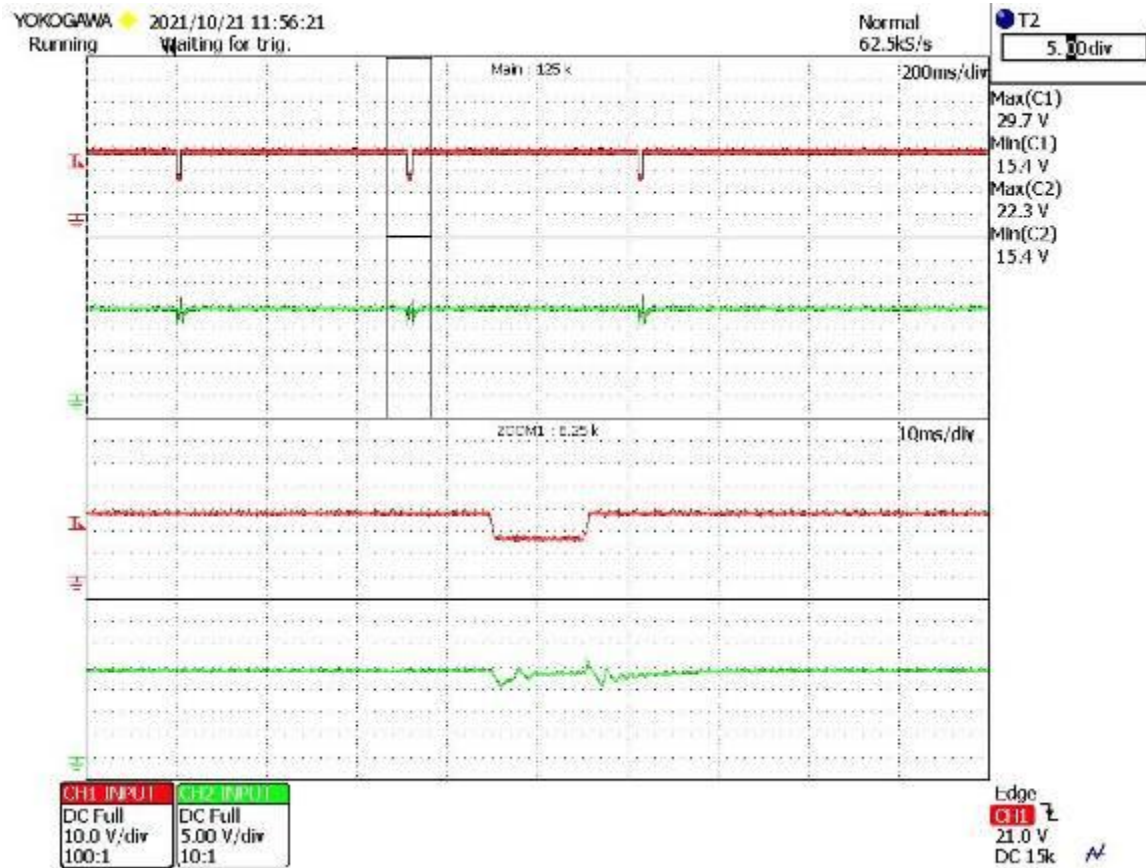


Figure E-99: LDC105, Condition MM, test application with minimum and maximum measurement

Red trace = input voltage

Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

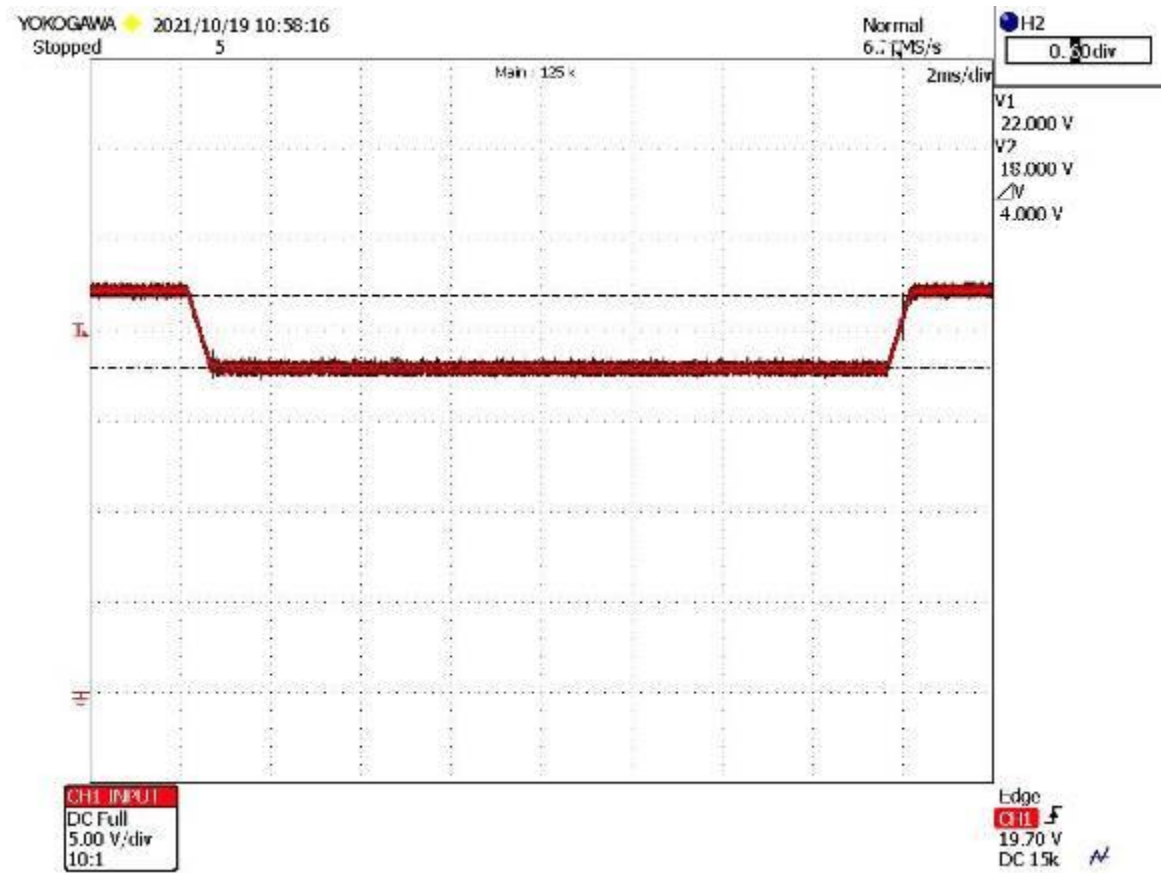


Figure E-100: LDC105, Condition NN, waveform verification, steady state and transient

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

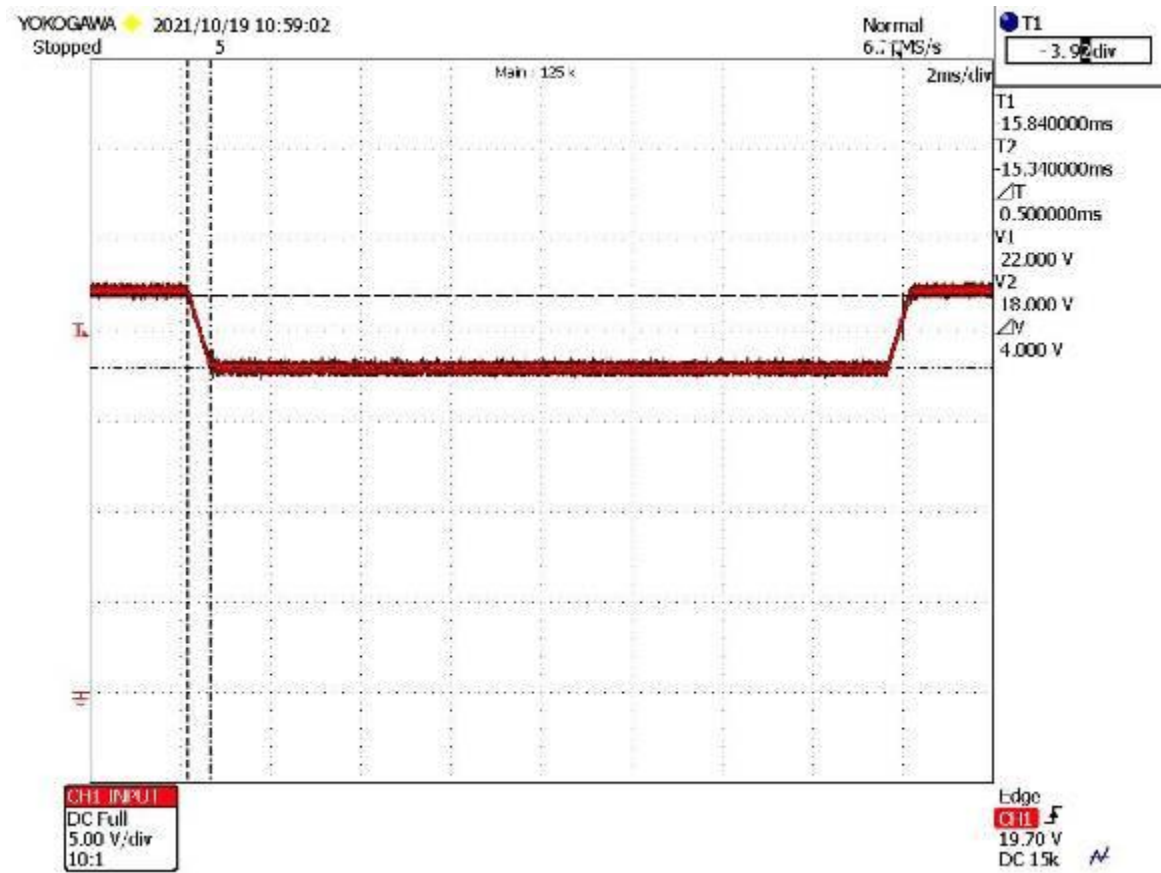


Figure E-101: LDC105, Condition NN, waveform verification, transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

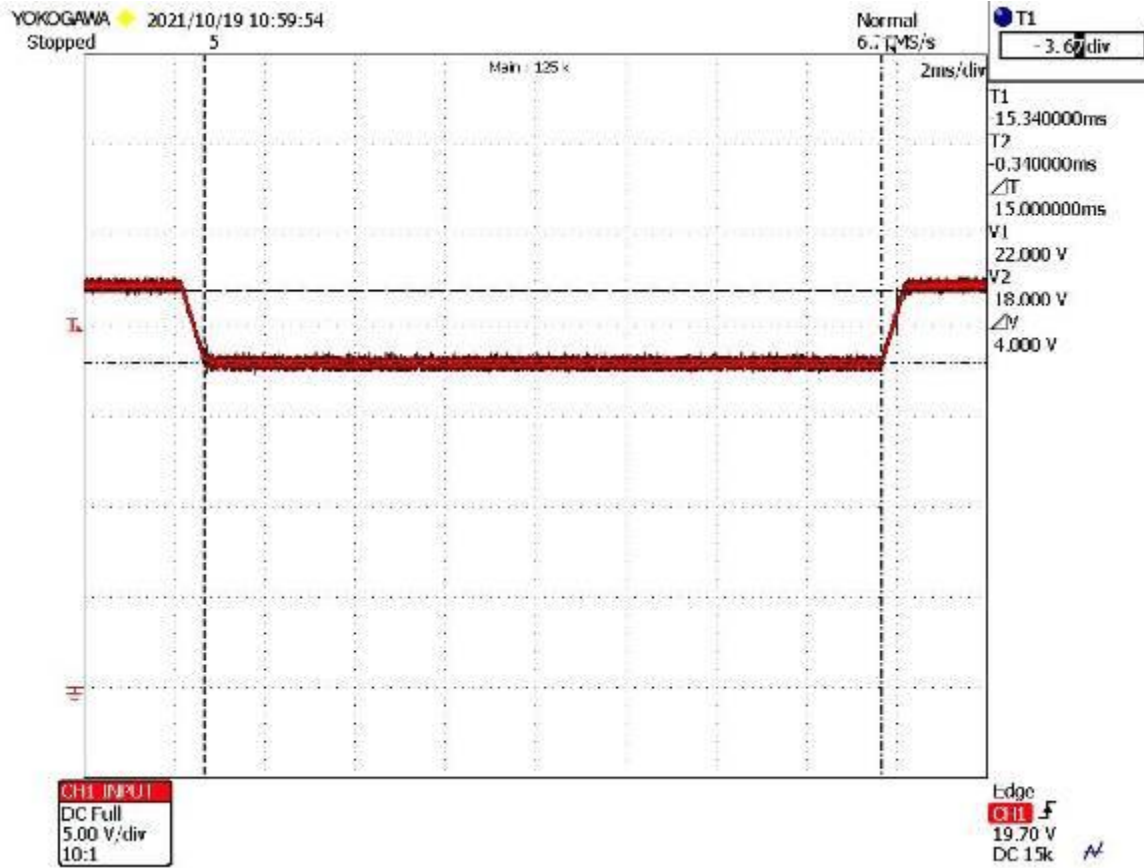


Figure E-102: LDC105, Condition NN, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

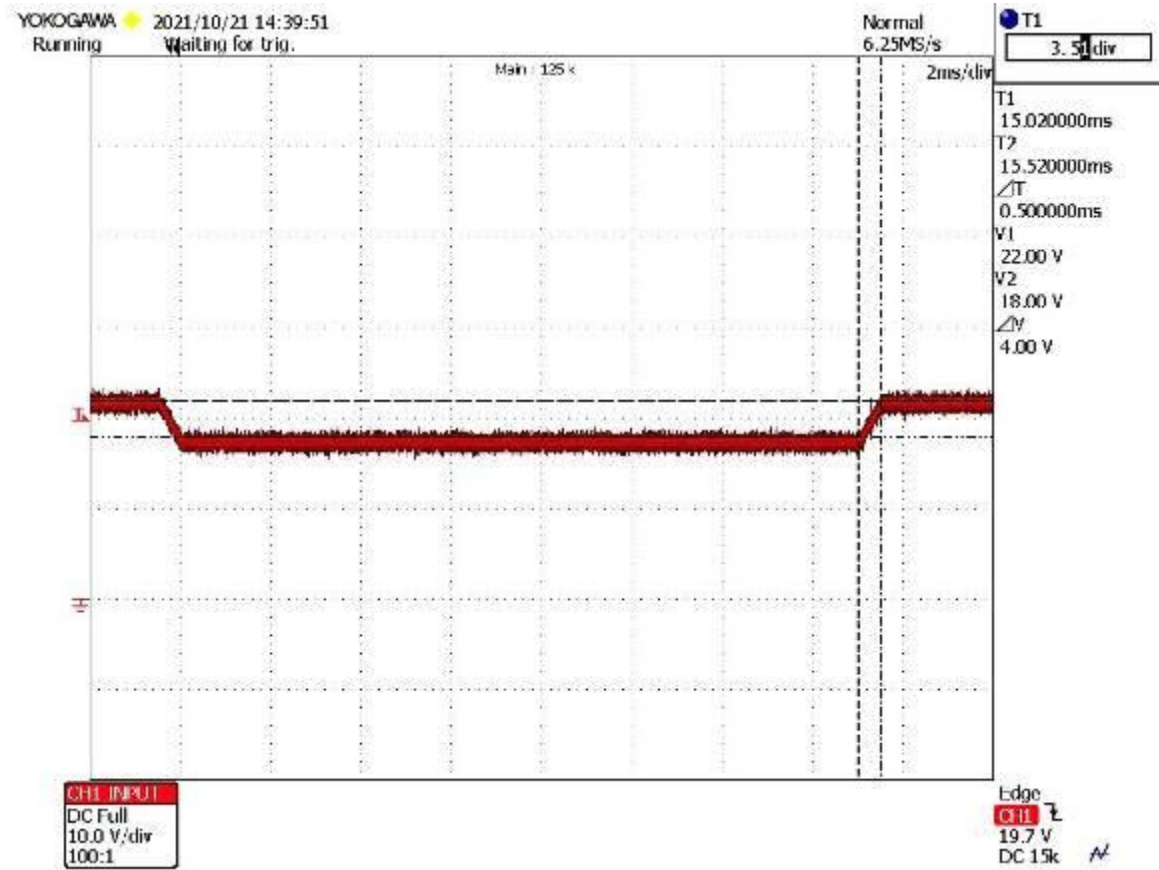


Figure E-103: LDC105, Condition NN, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

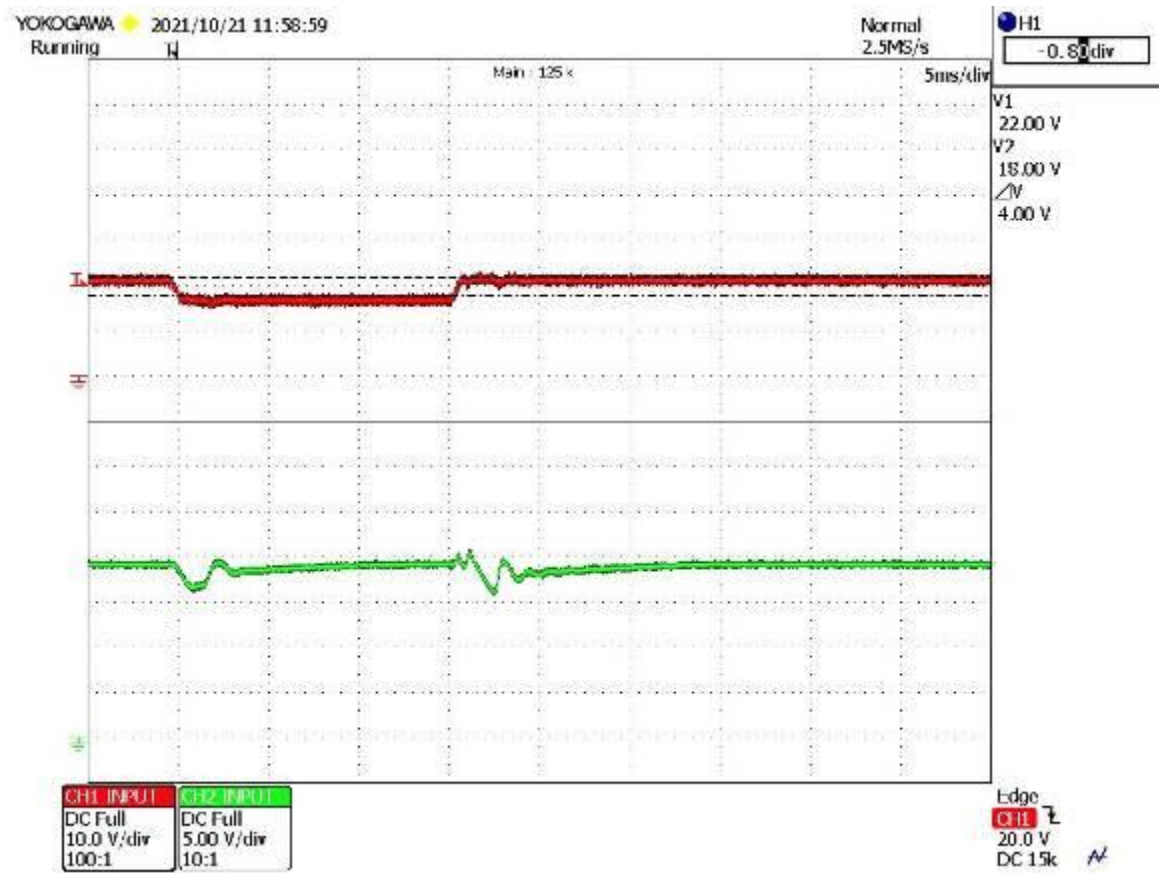


Figure E-104: LDC105, Condition NN, test application with cursor amplitude measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

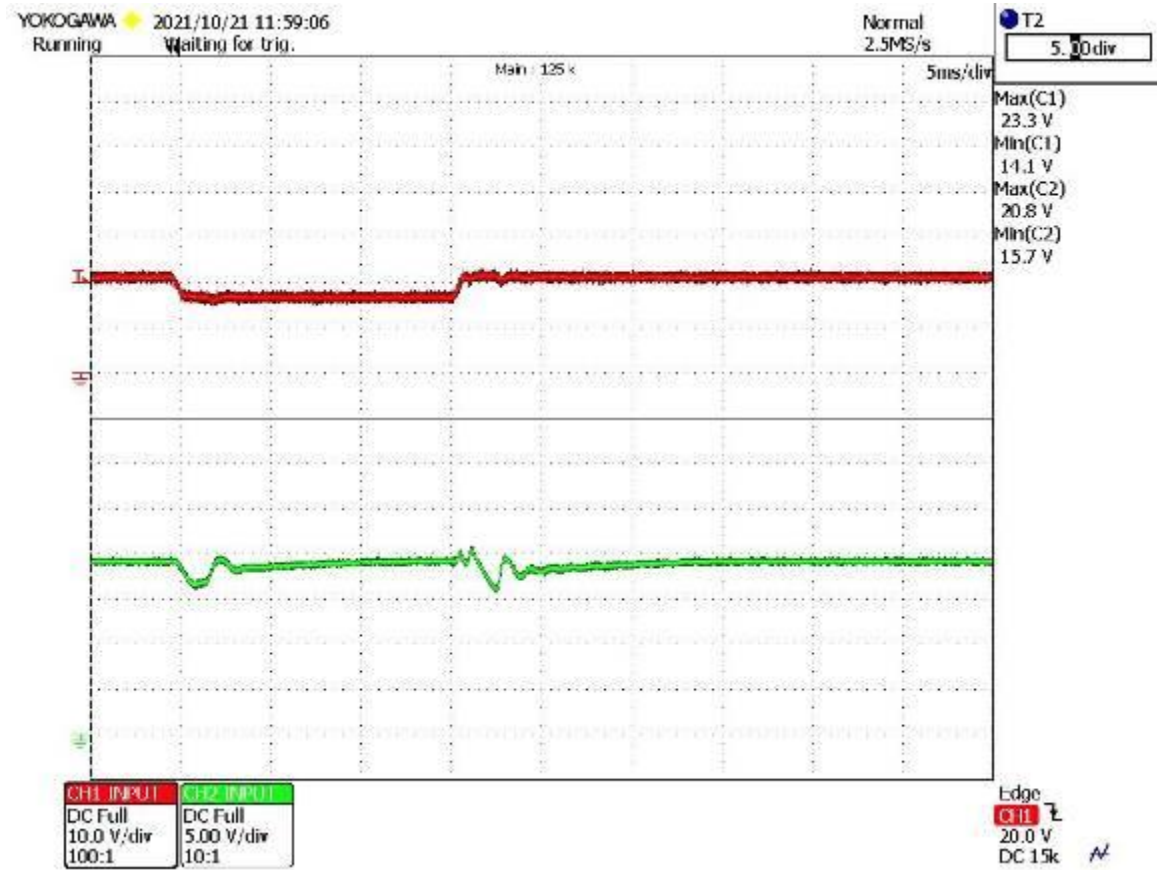


Figure E-105: LDC105, Condition NN, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

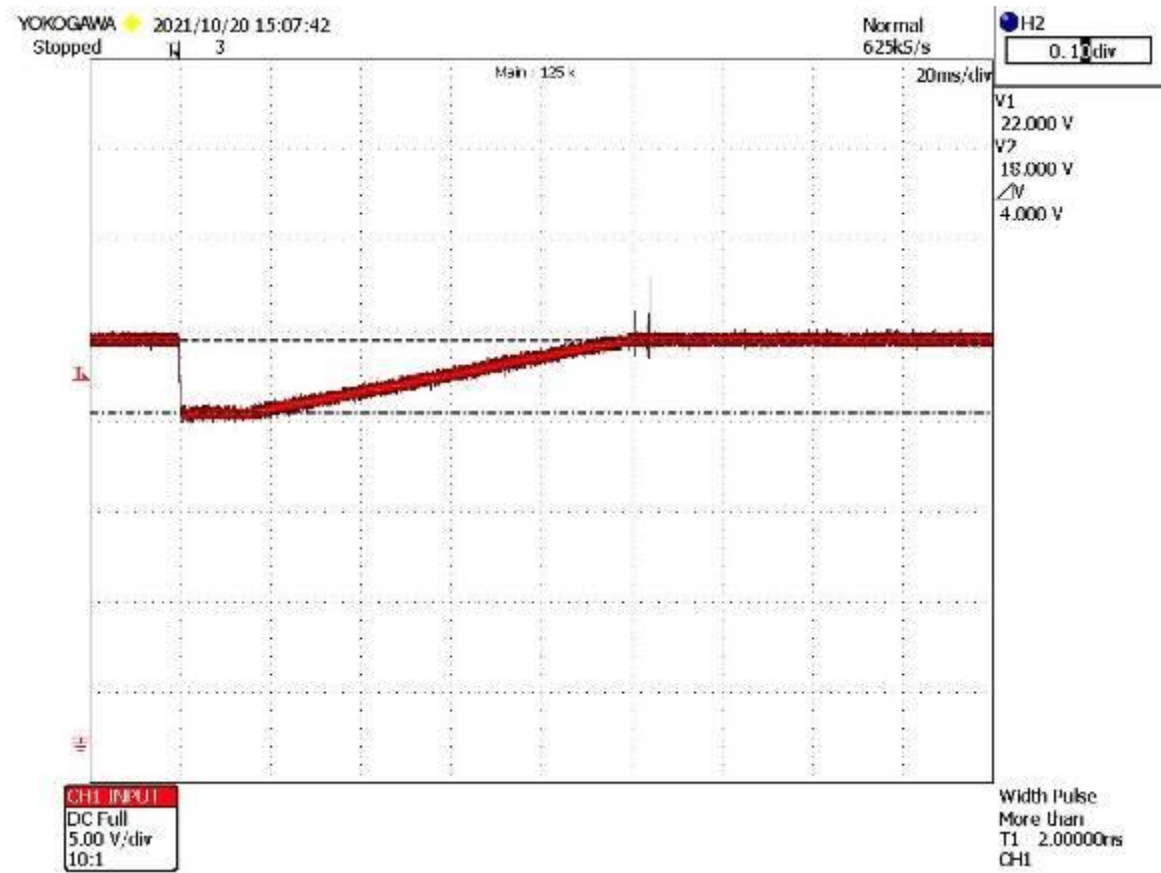
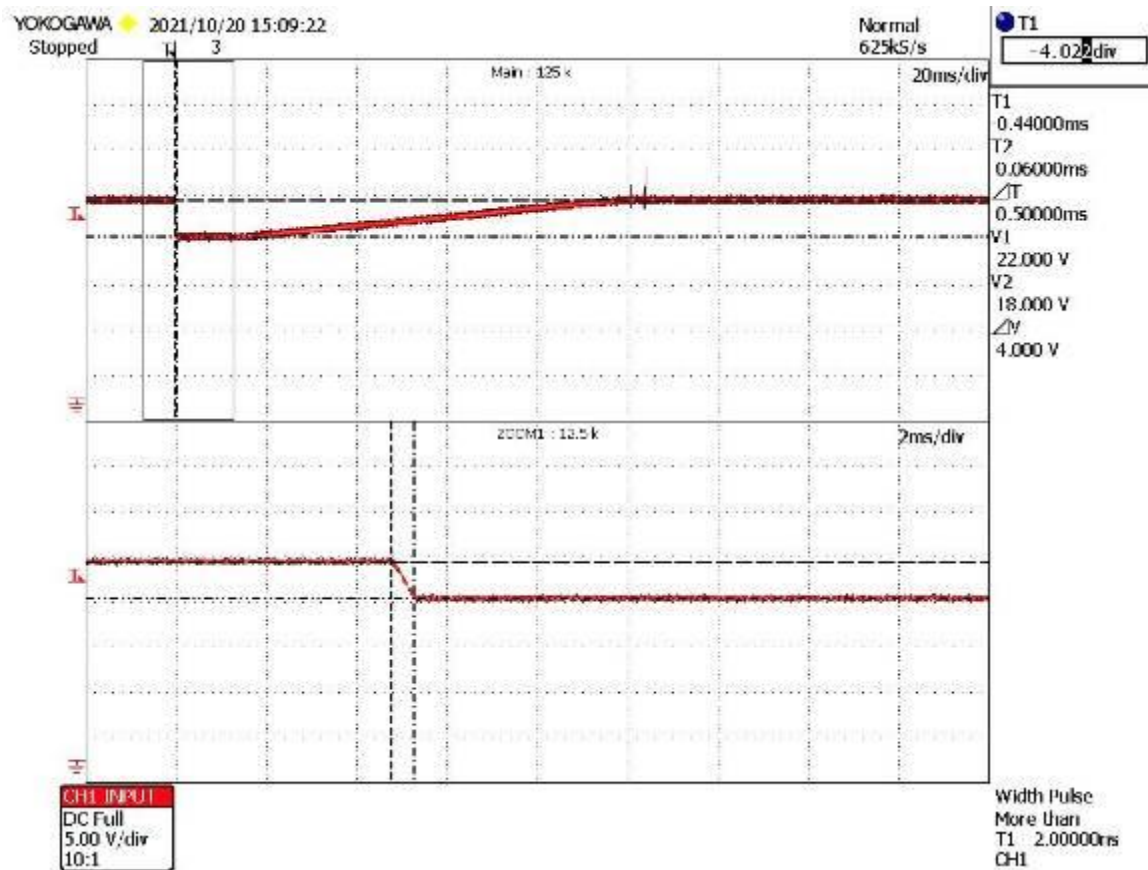


Figure E-106: LDC105, Condition OO, waveform verification, steady state and transient

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

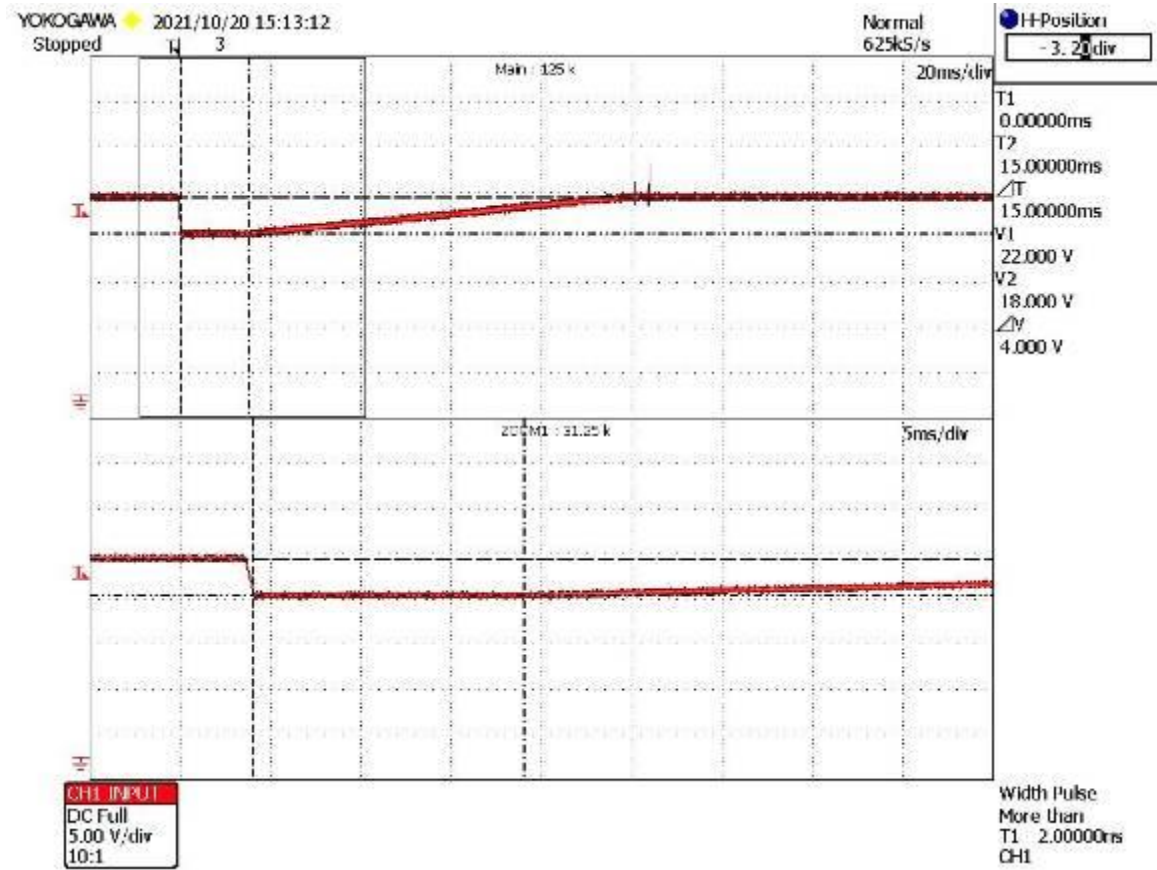


Figure E-108: LDC105, Condition OO, waveform verification, transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

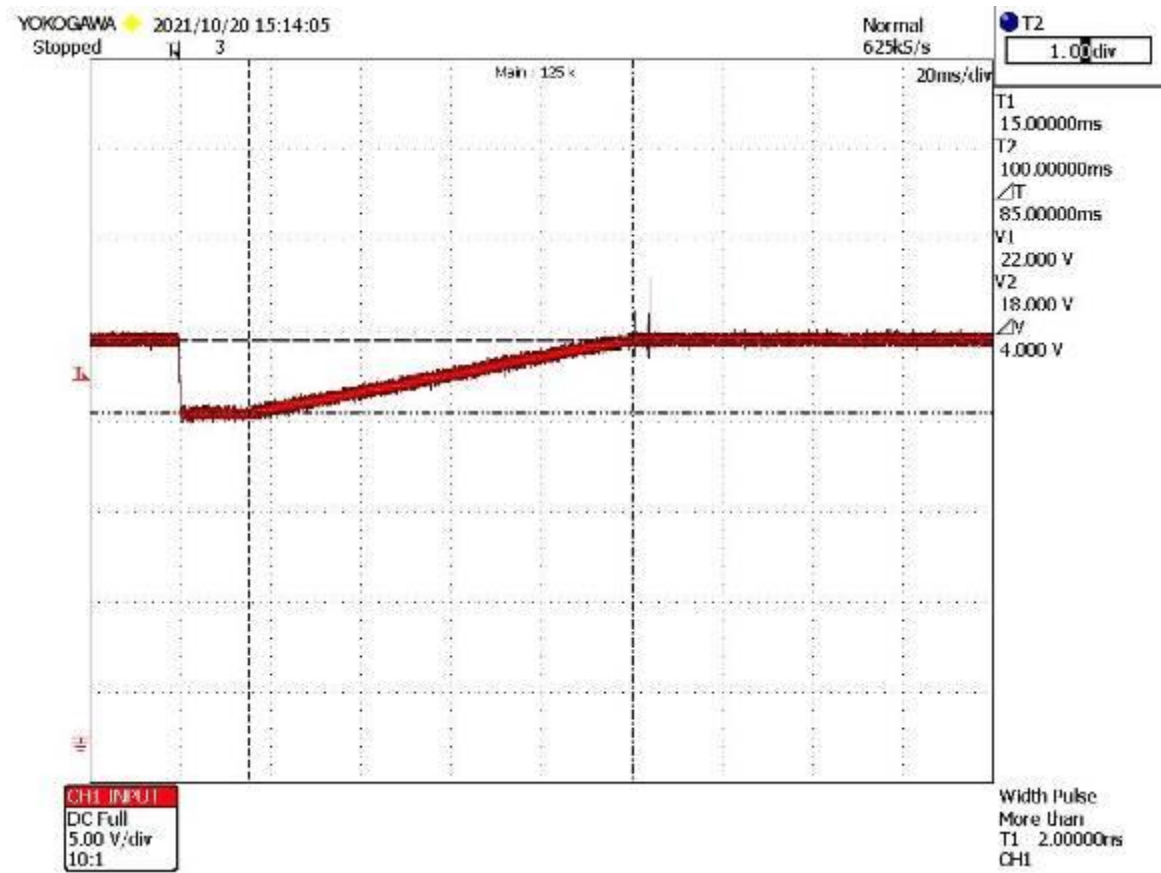


Figure E-109: LDC105, Condition OO, waveform verification, transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

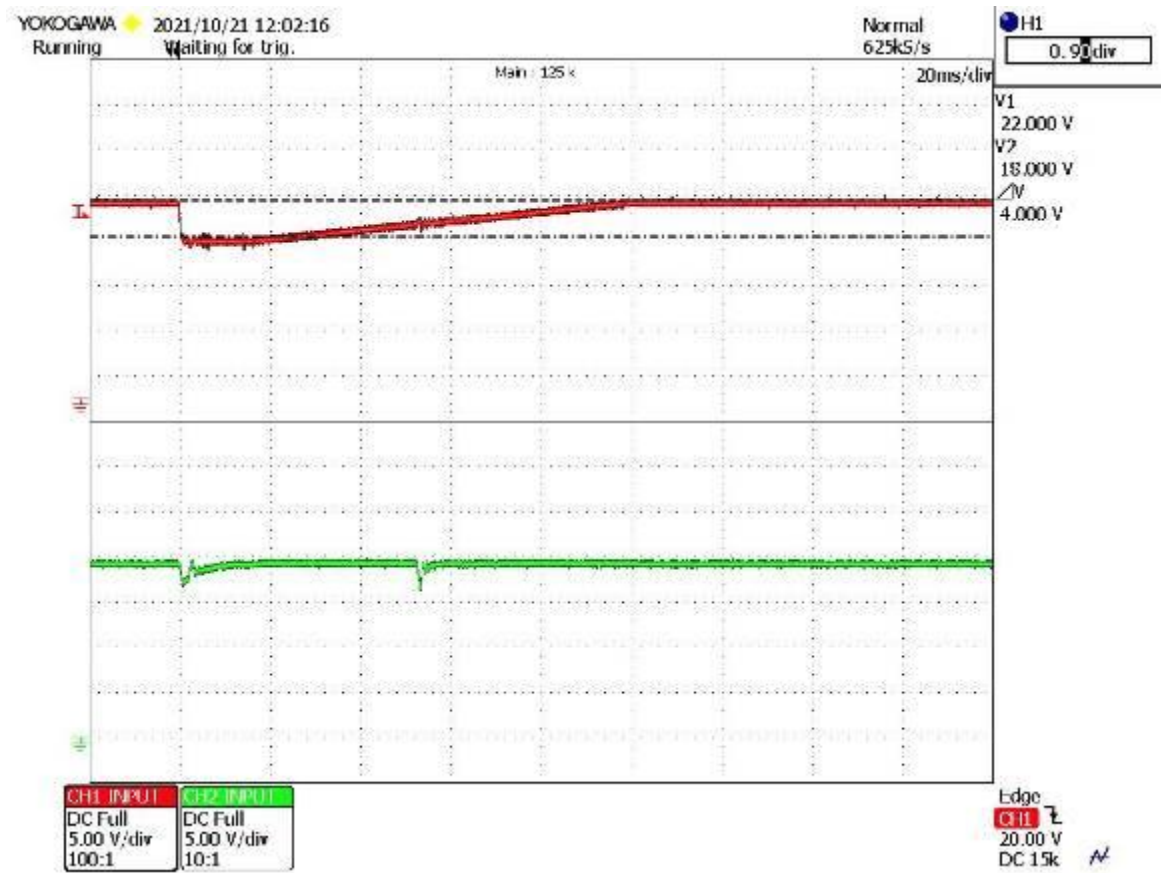


Figure E-110: LDC105, Condition OO, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

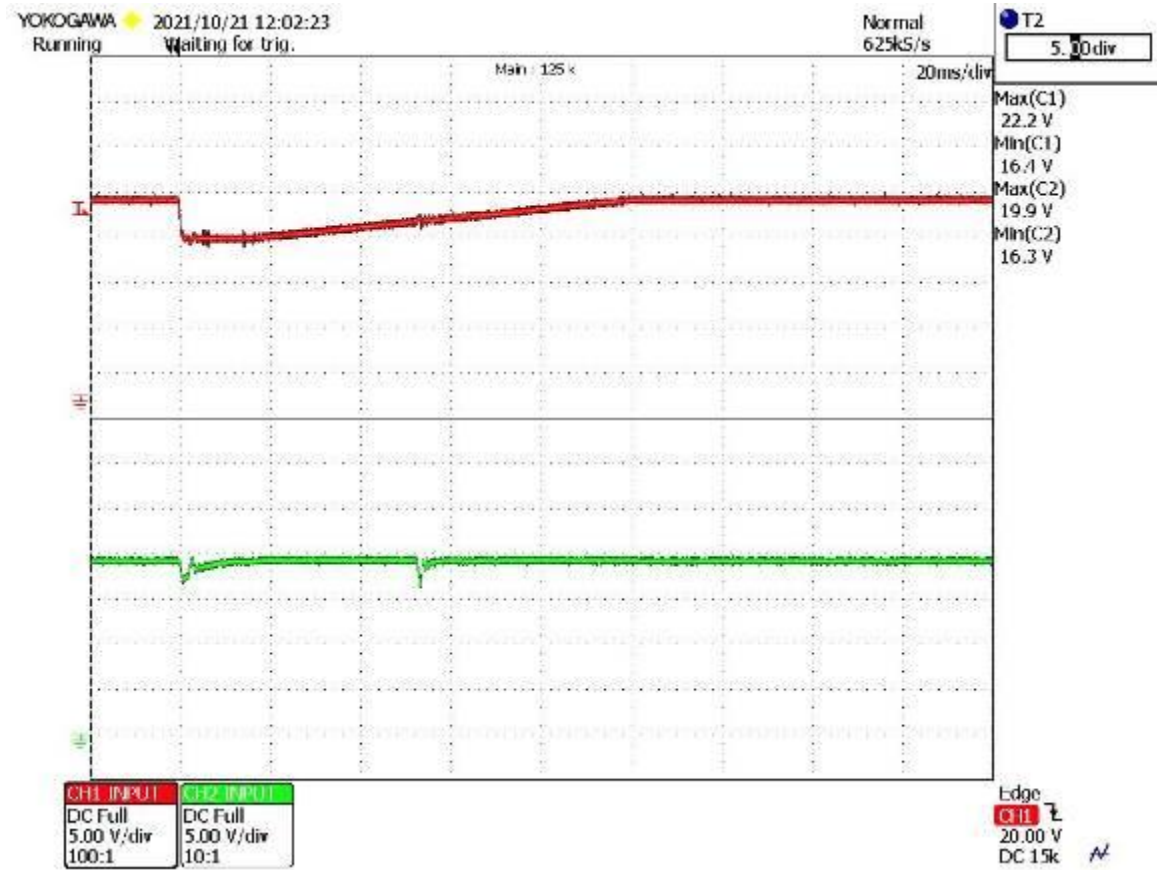


Figure E-111: LDC105, Condition OO, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

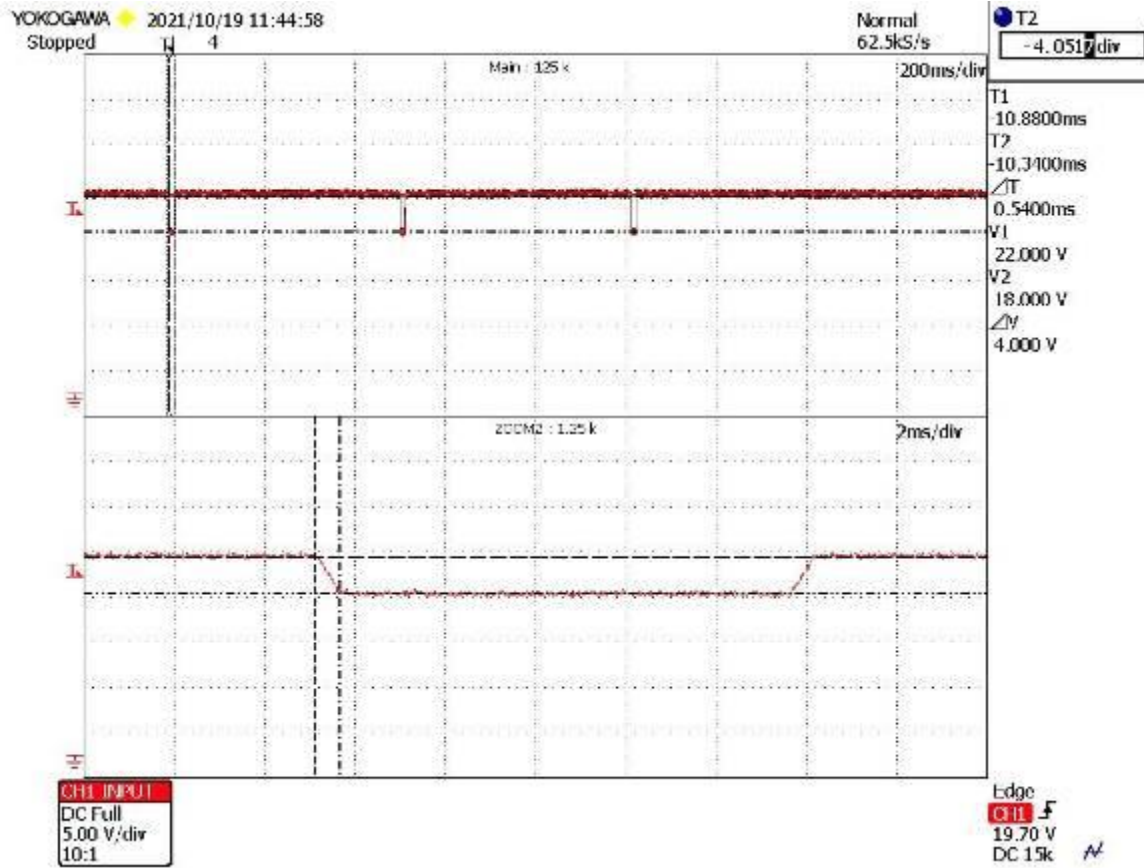


Figure E-112: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, steady state and first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

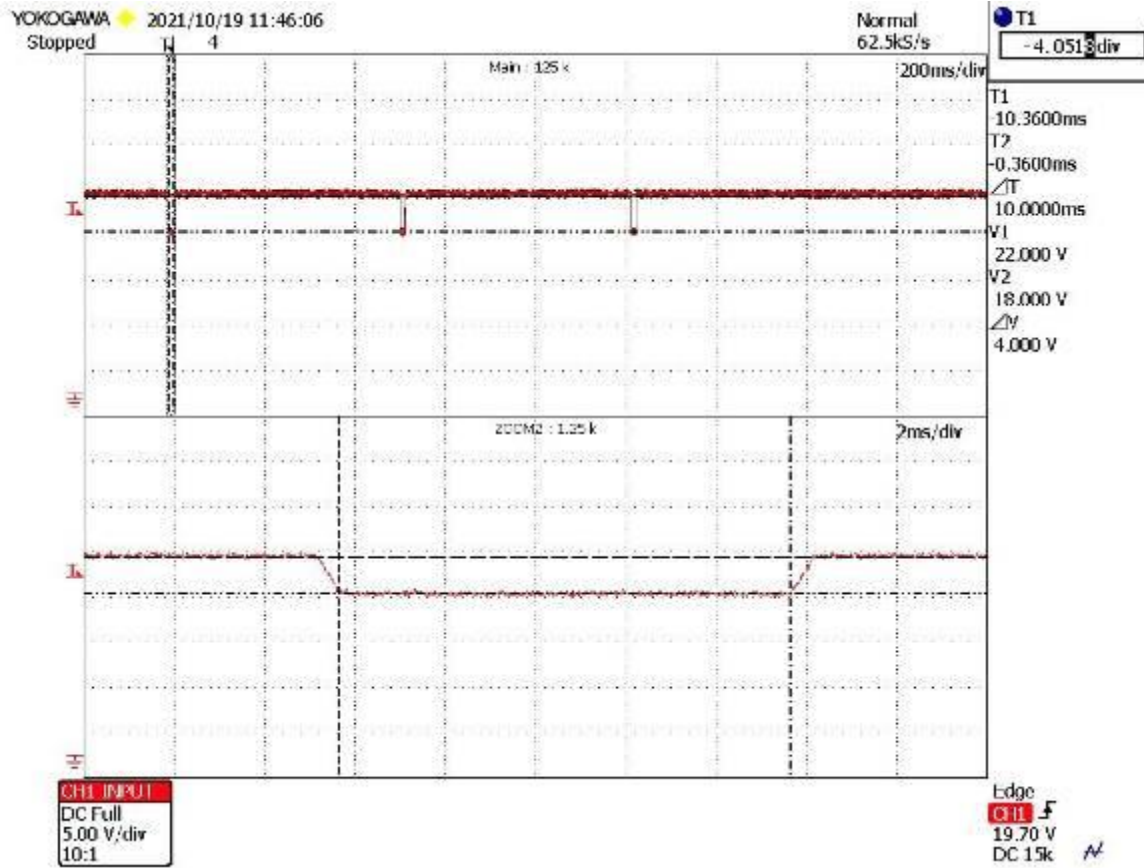


Figure E-113: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

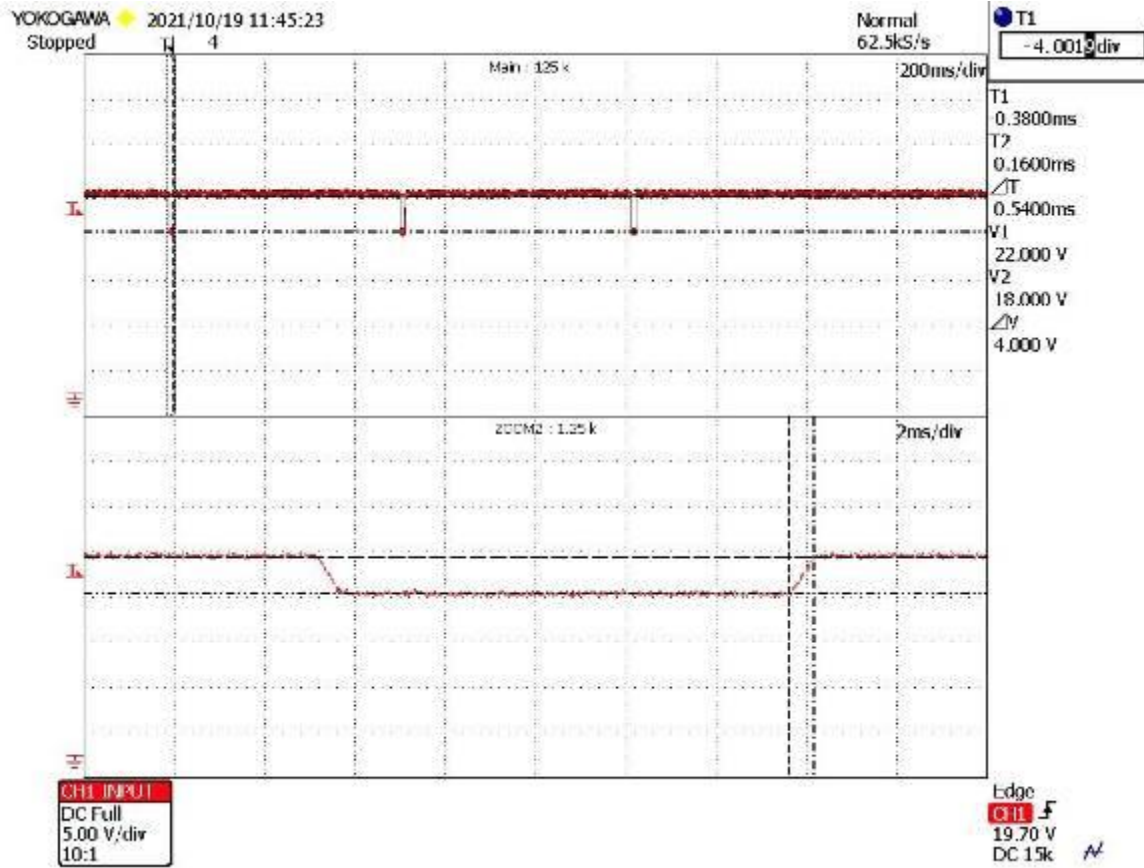
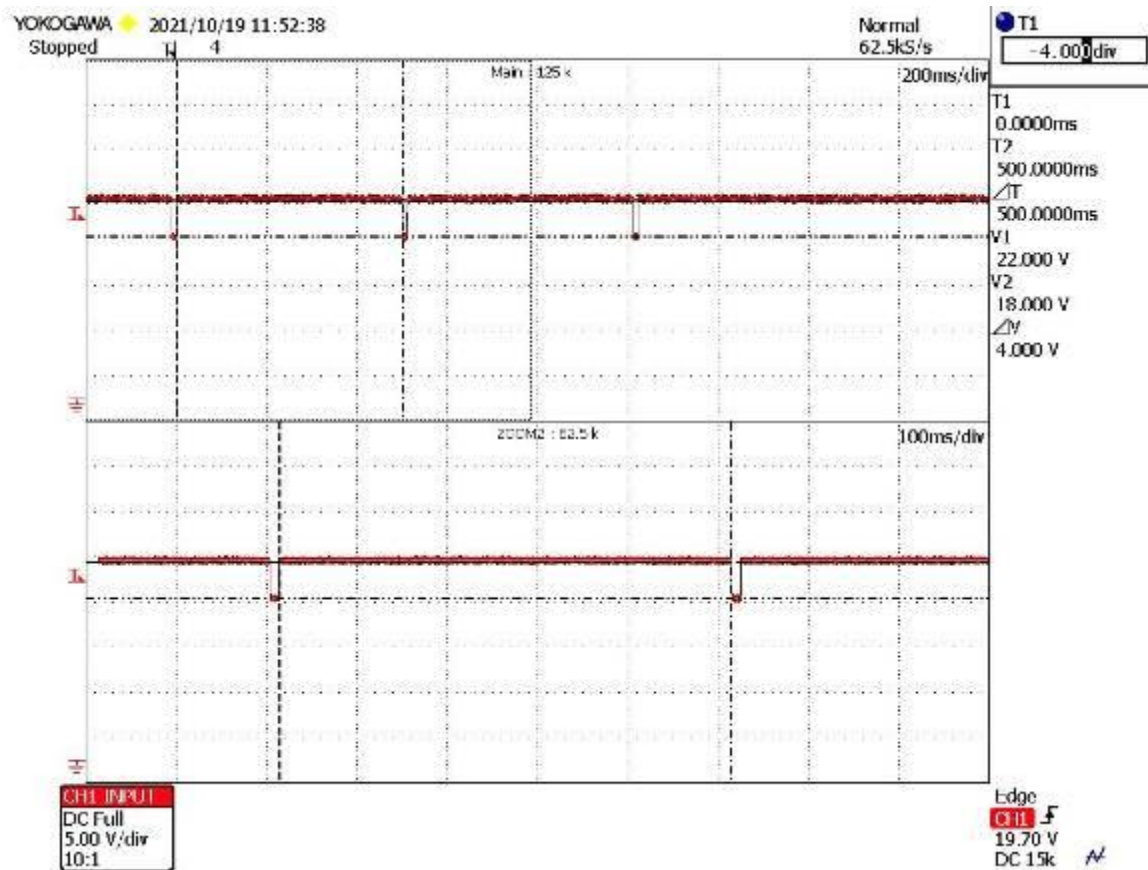


Figure E-114: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, first transient rise time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

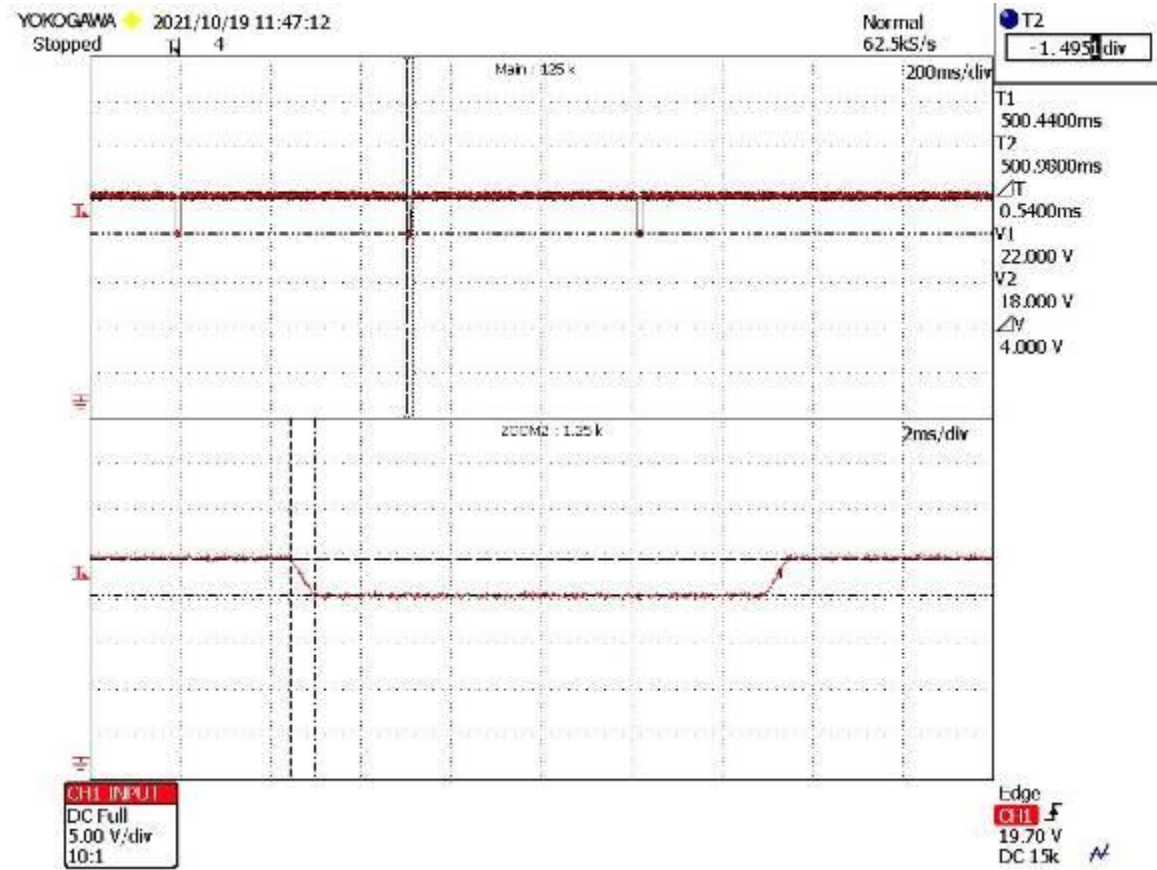


Figure E-116: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

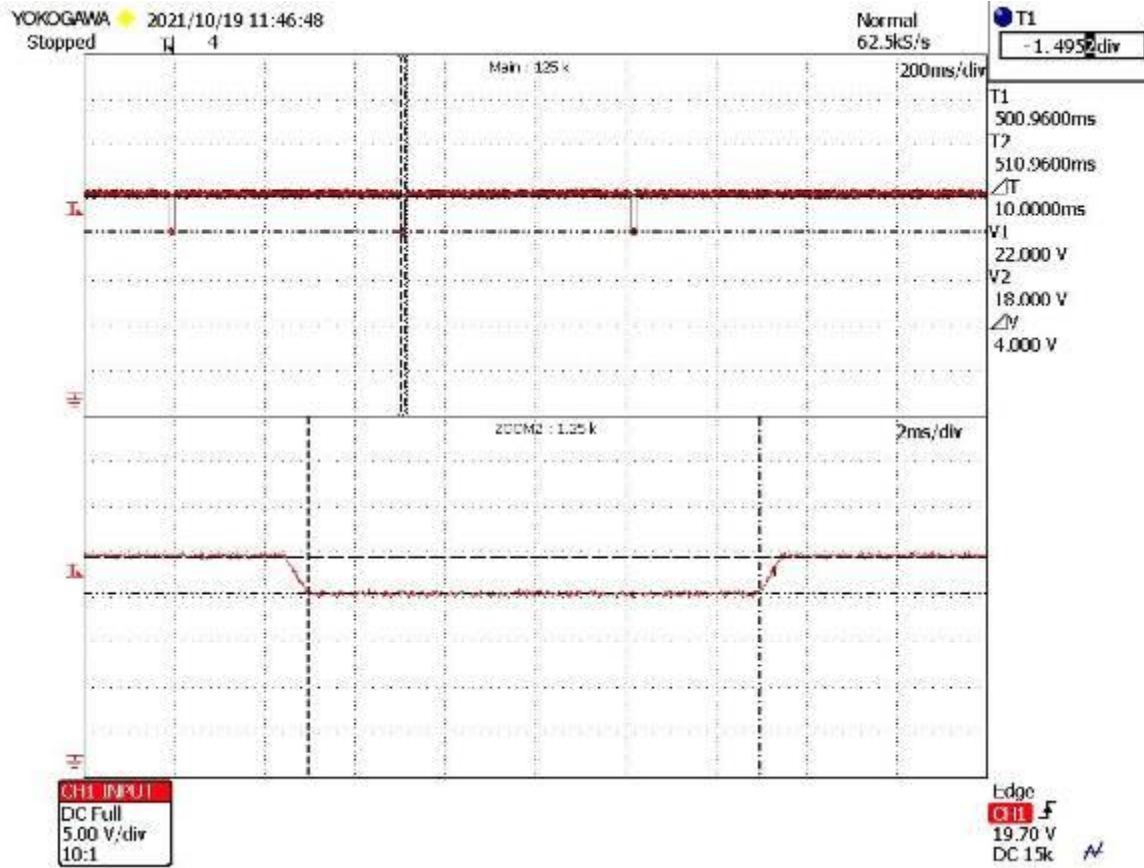


Figure E-117: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, second transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

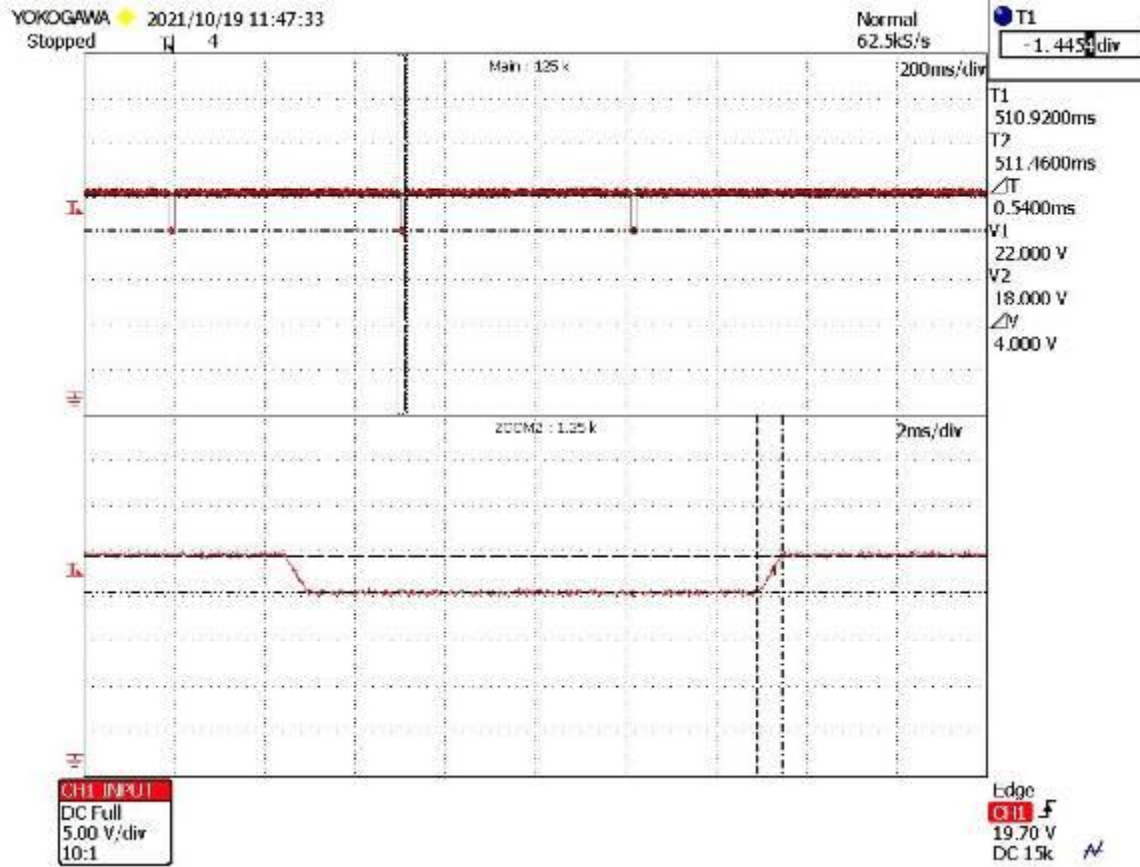


Figure E-118: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, second transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

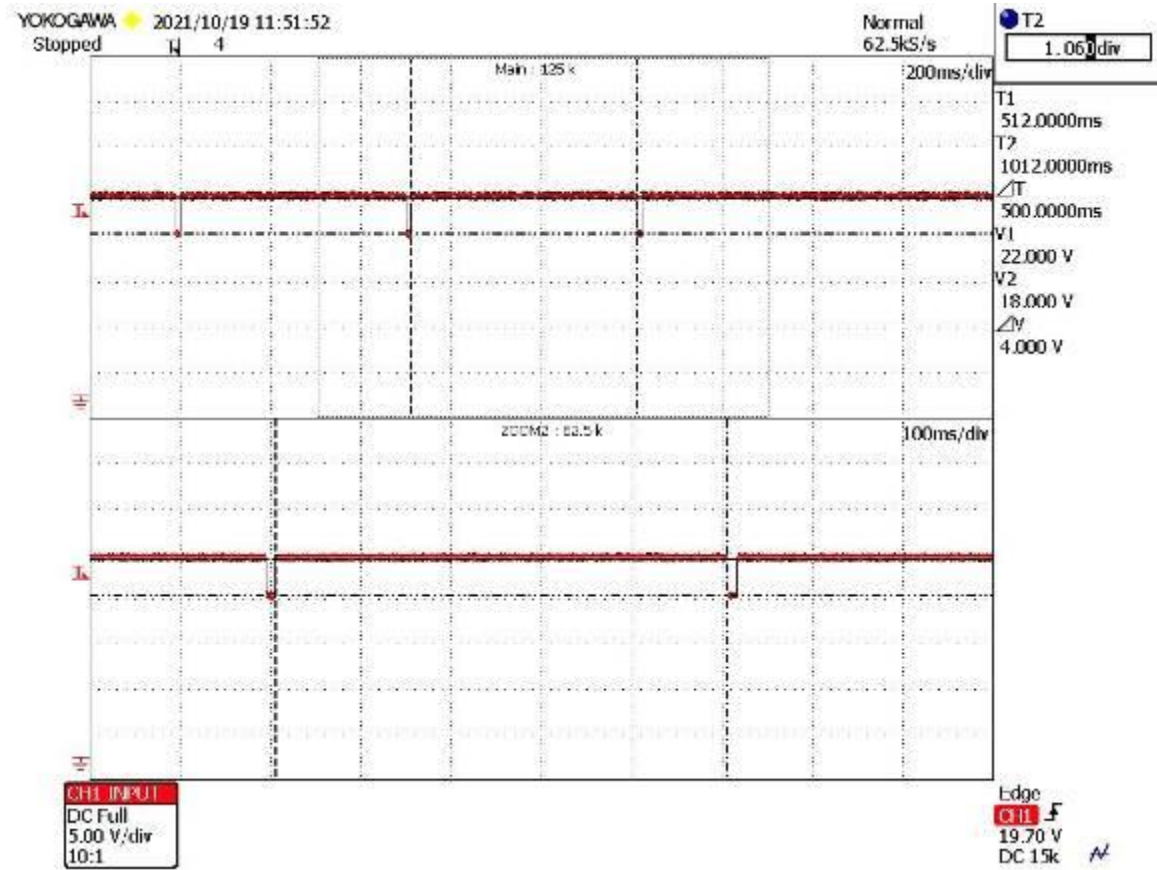
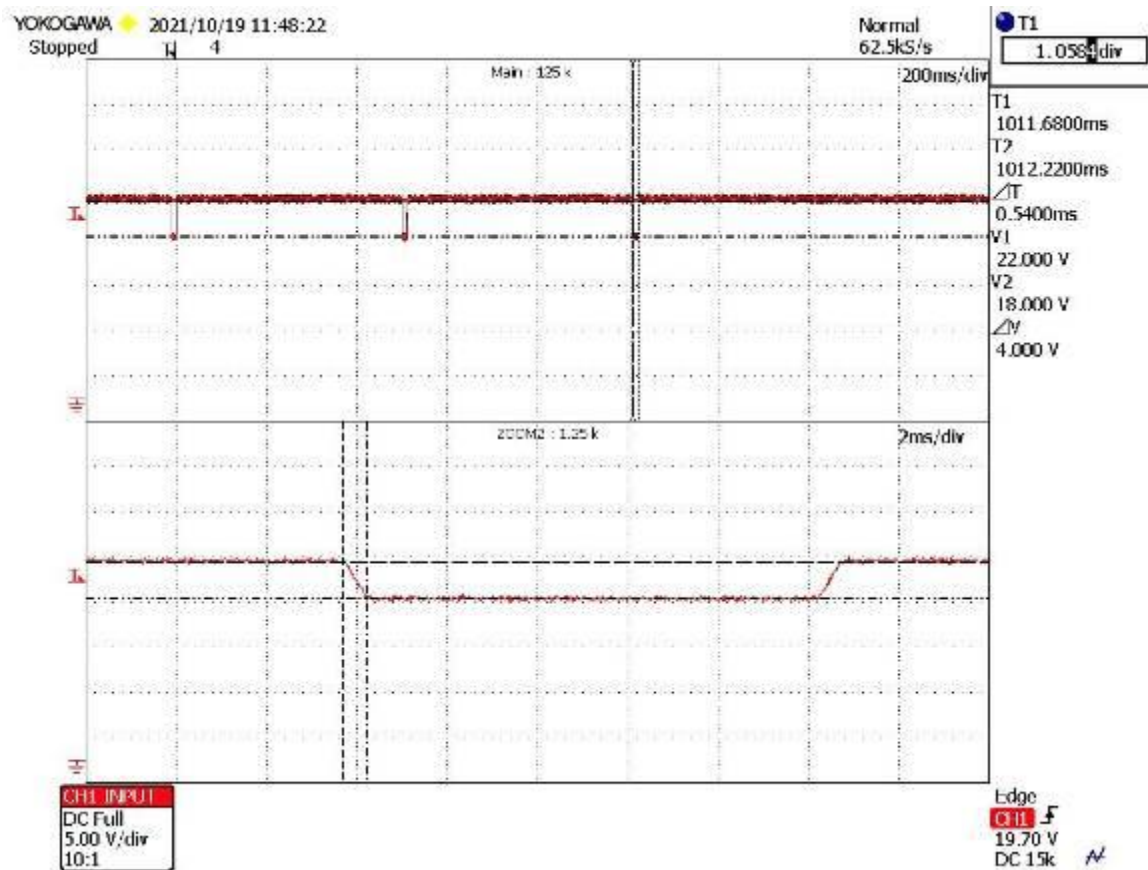


Figure E-119: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, second transient to third transient delay

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

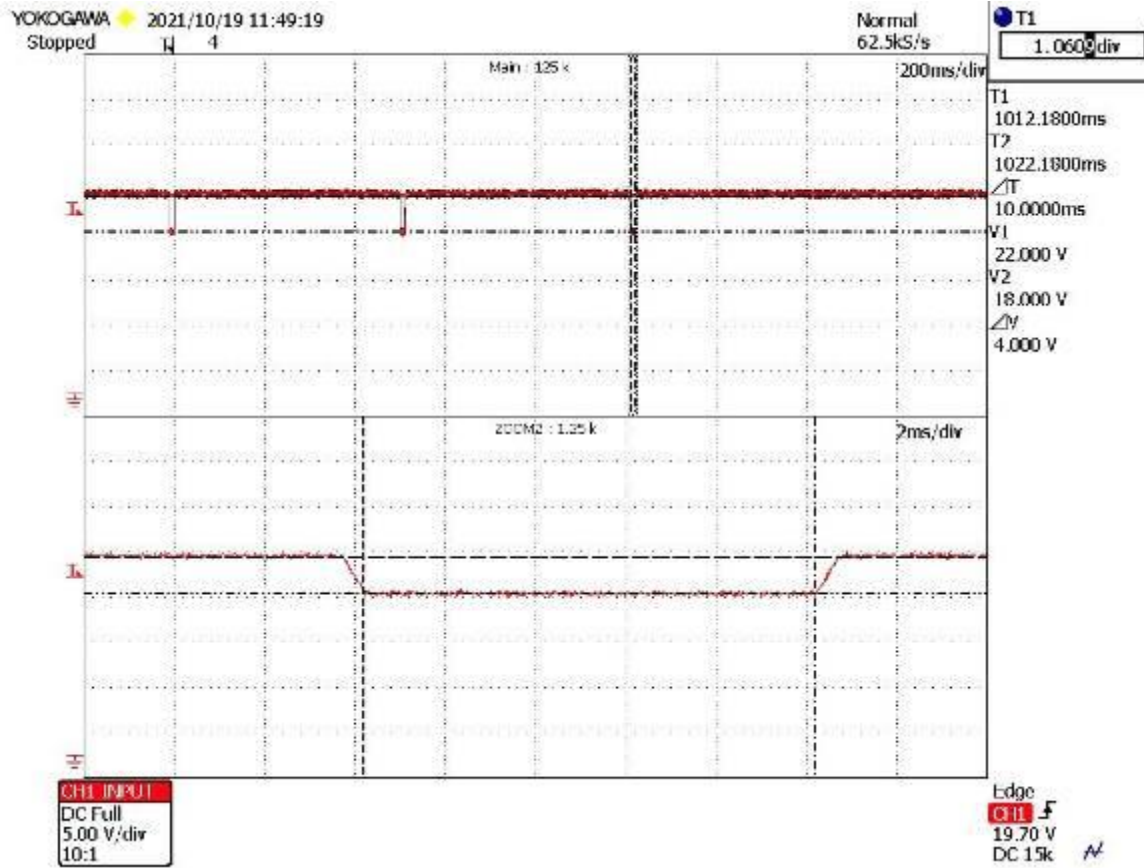


Figure E-121: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, third transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

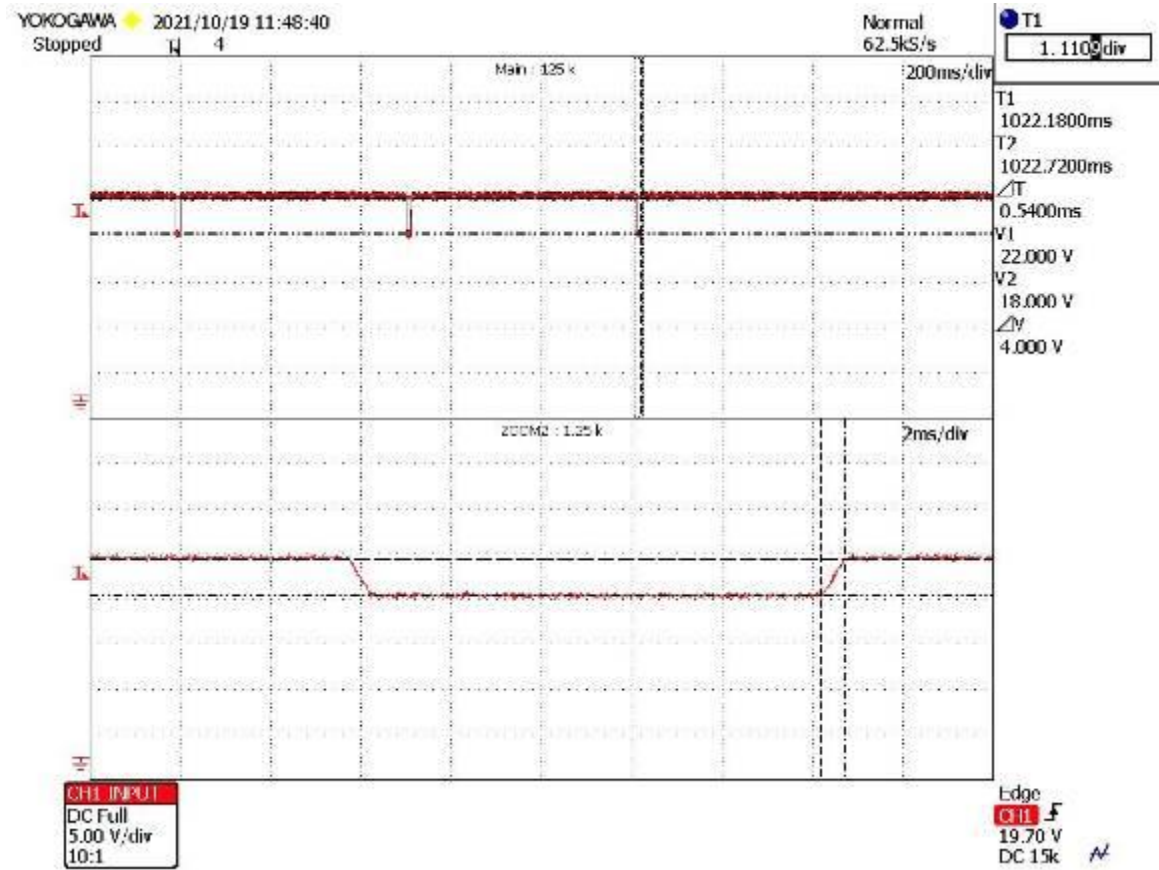


Figure E-122: LDC105, Condition PP, 3 times every 0.5 sec, waveform verification, third transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

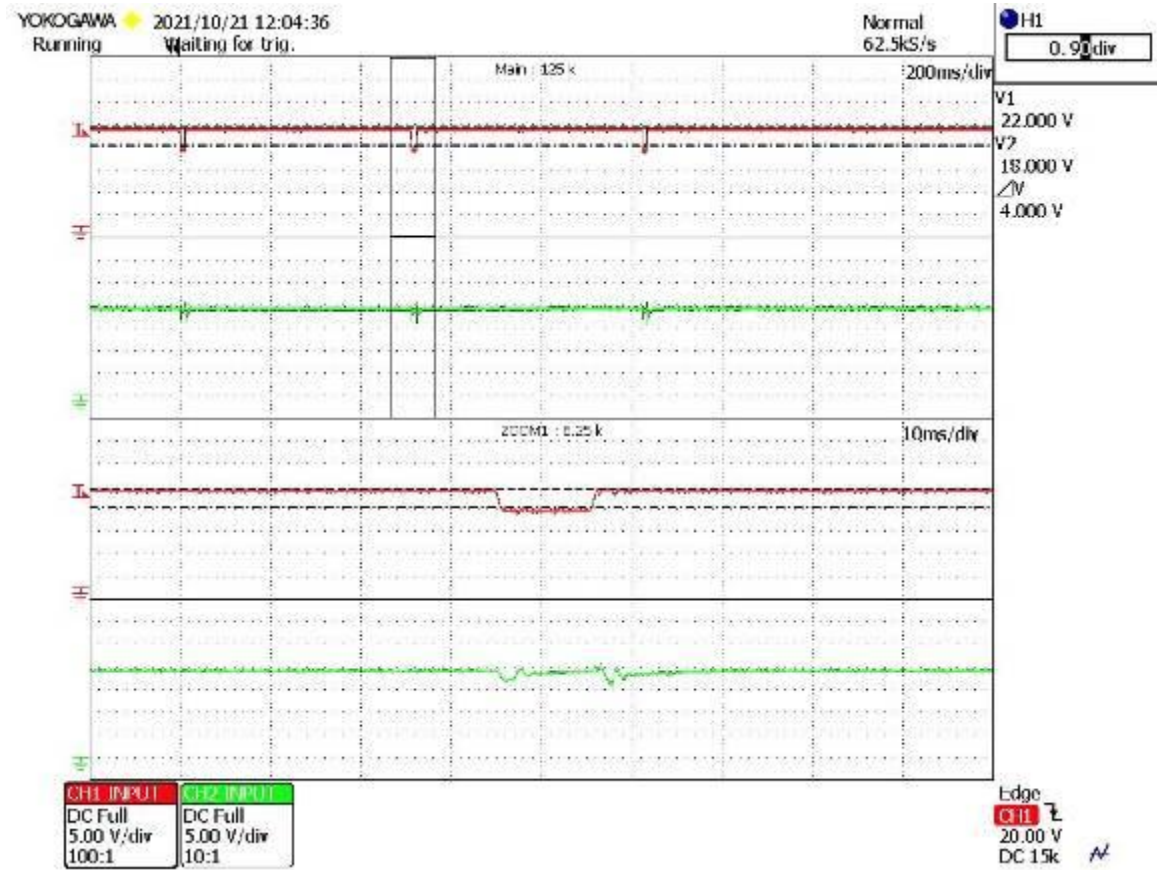


Figure E-123: LDC105, Condition PP, 3 times every 0.5 sec, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

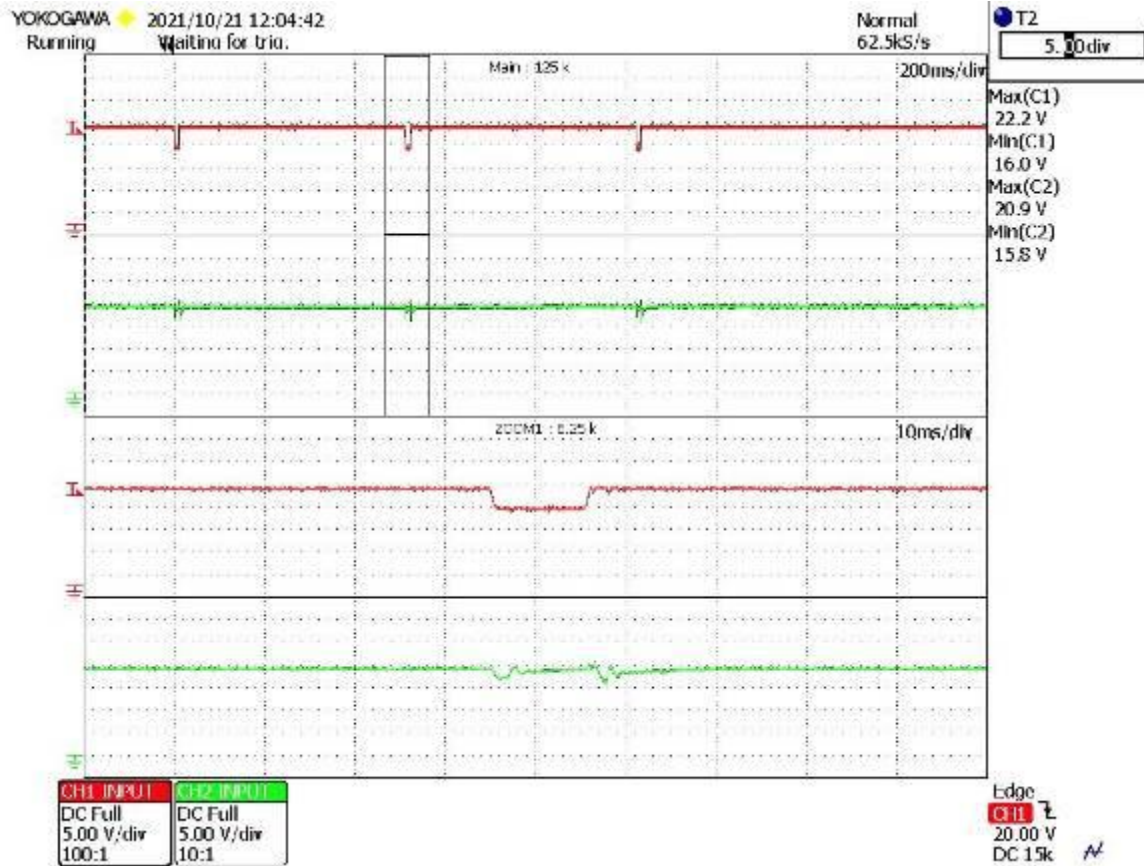


Figure E-124: LDC105, Condition PP, 3 times every 0.5 sec, test with application minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

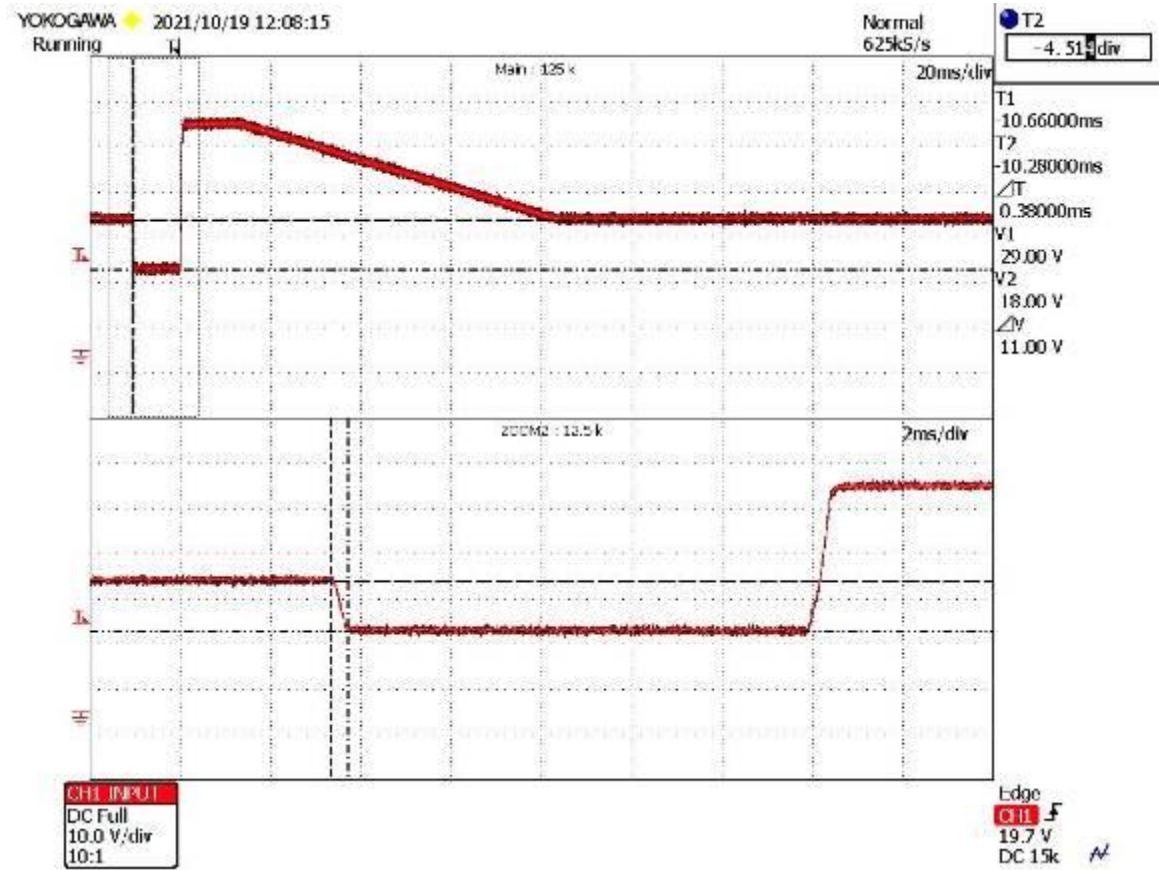


Figure E-125: LDC105, Condition QQ, waveform verification, steady state and first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

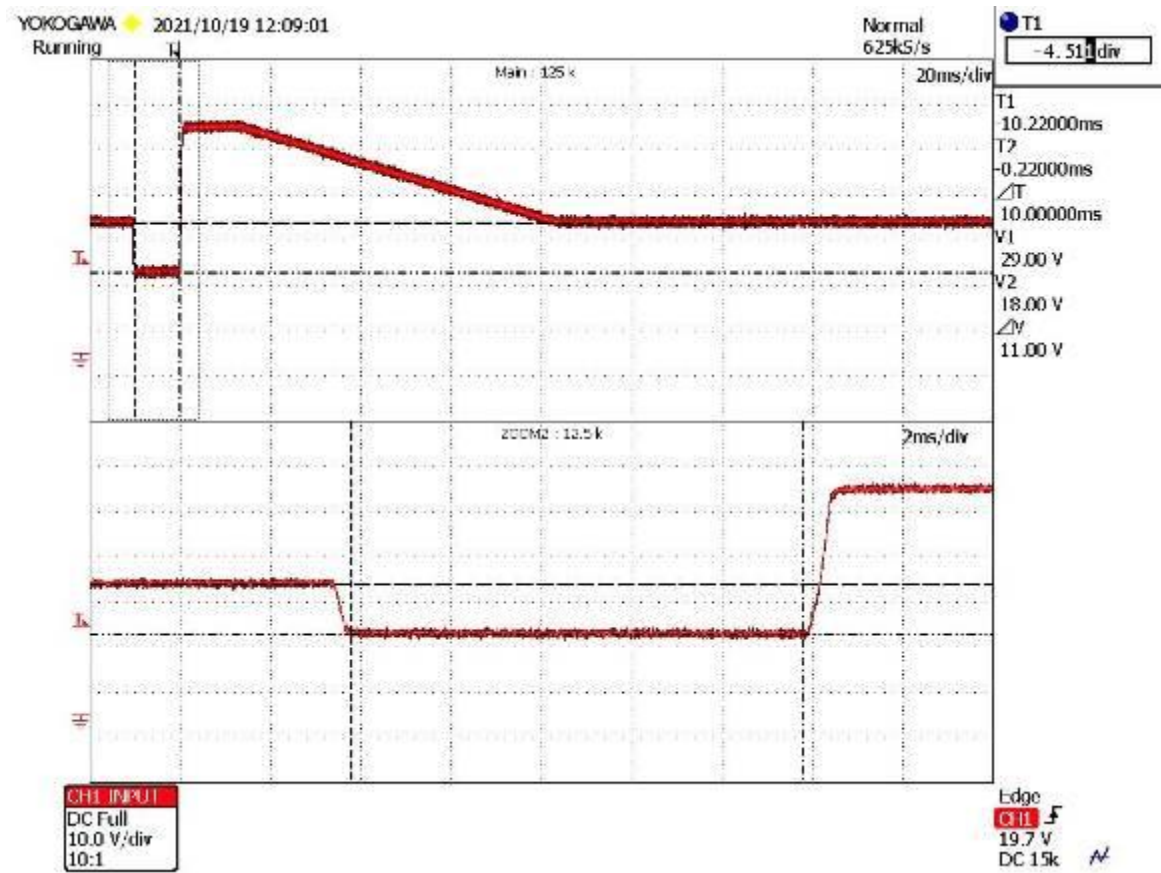


Figure E-126: LDC105, Condition QQ, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

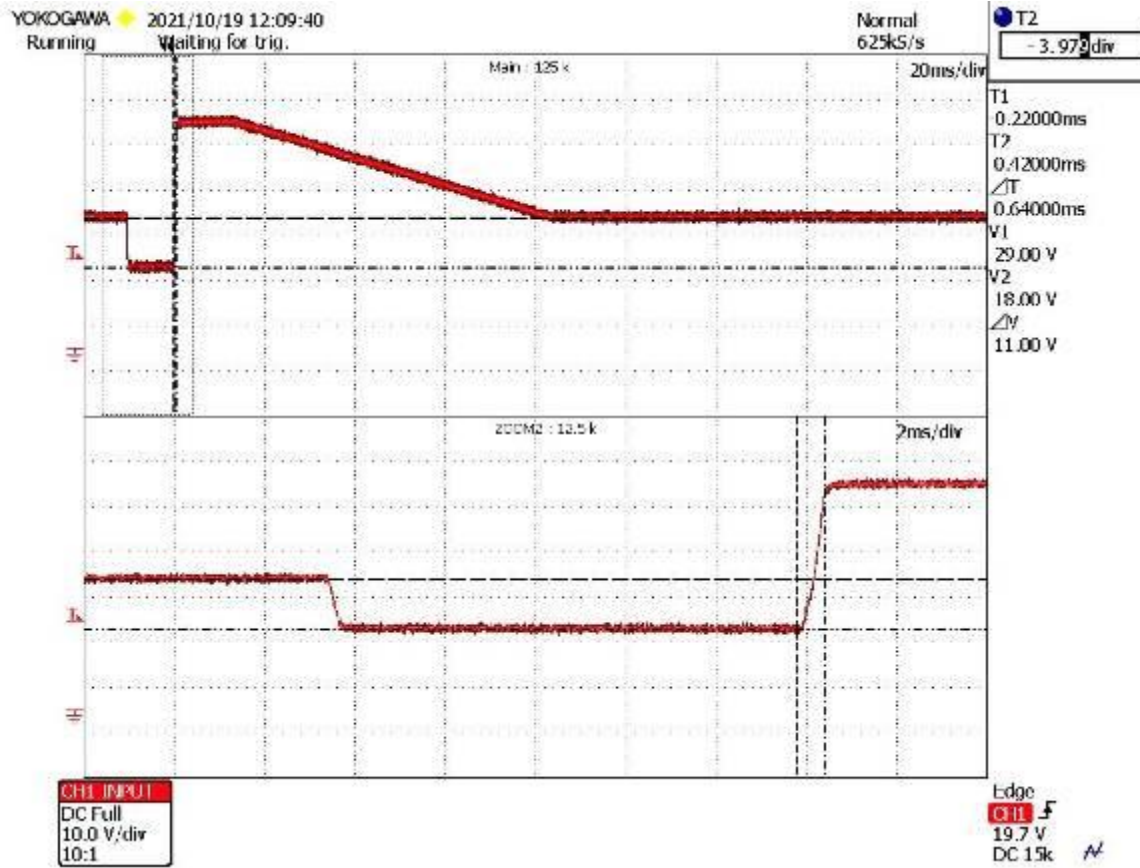


Figure E-127: LDC105, Condition QQ, waveform verification, first transient to second transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

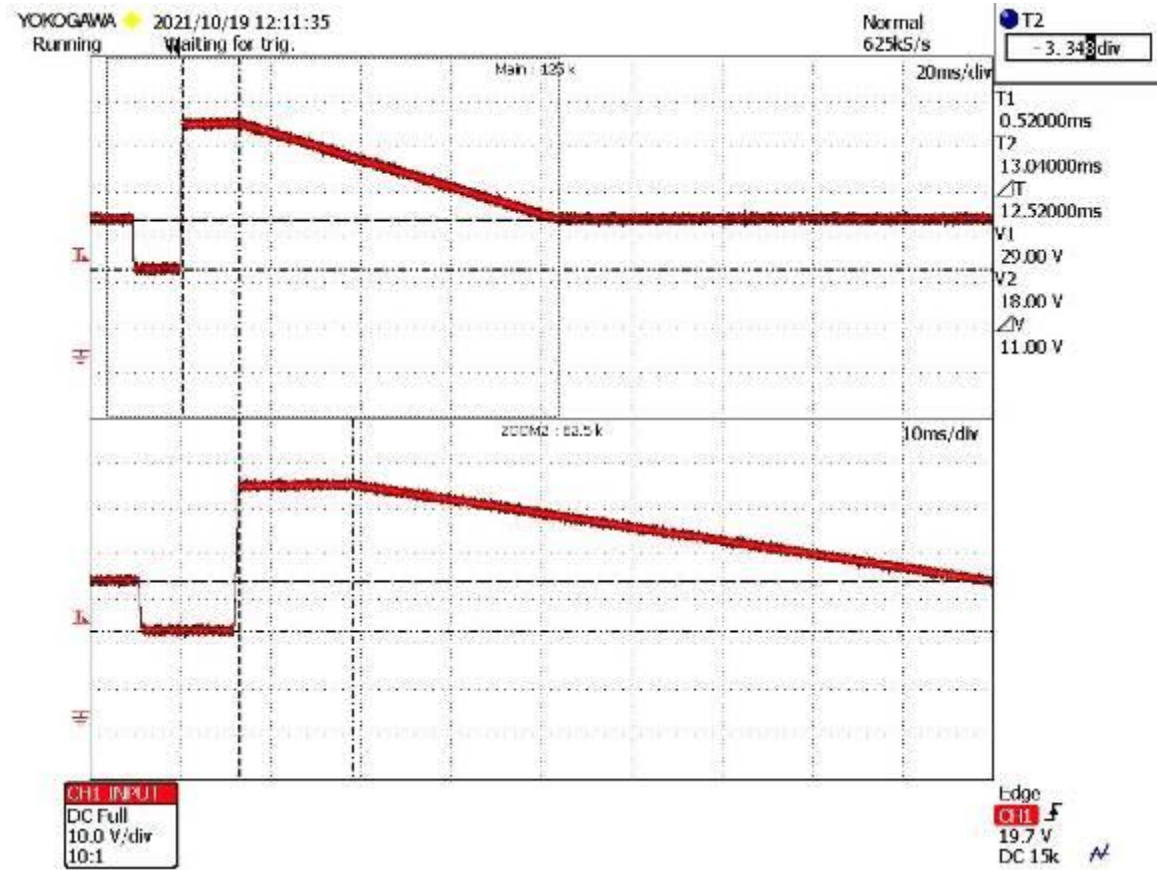


Figure E-128: LDC105, Condition QQ, waveform verification, second transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

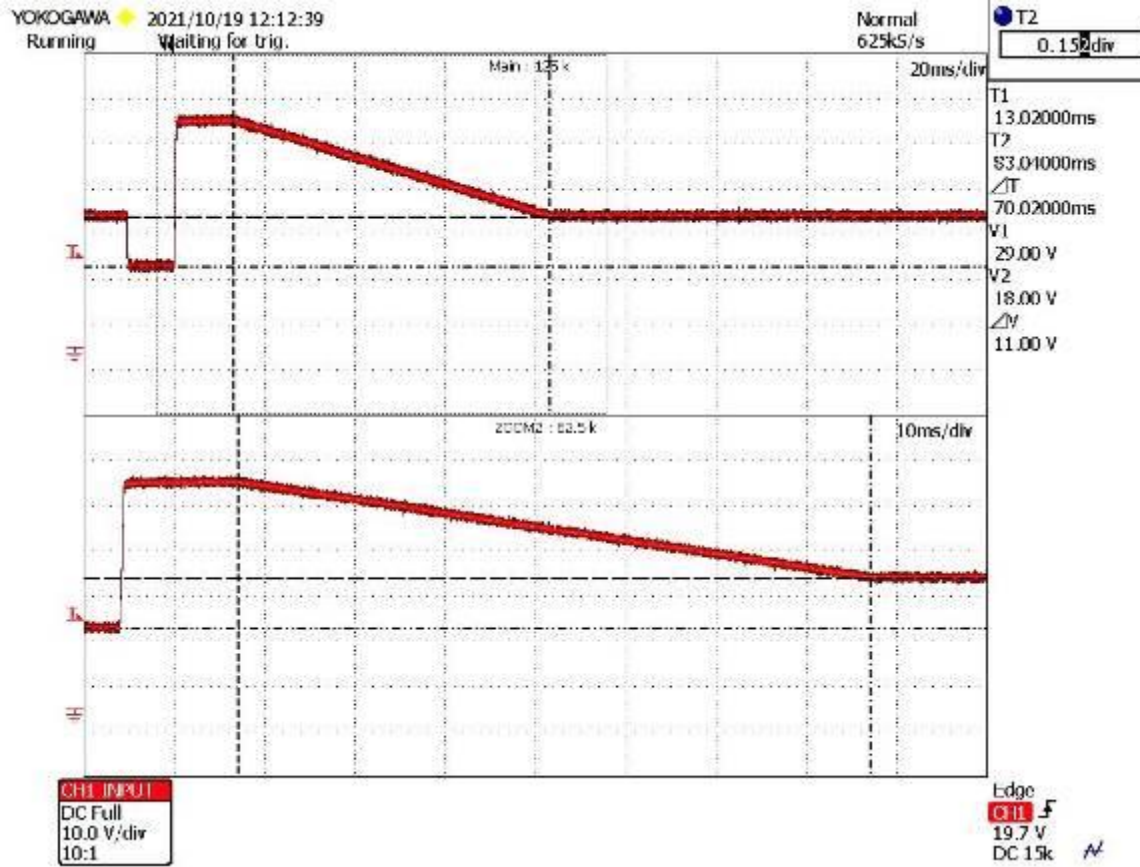


Figure E-129: LDC105, Condition QQ, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

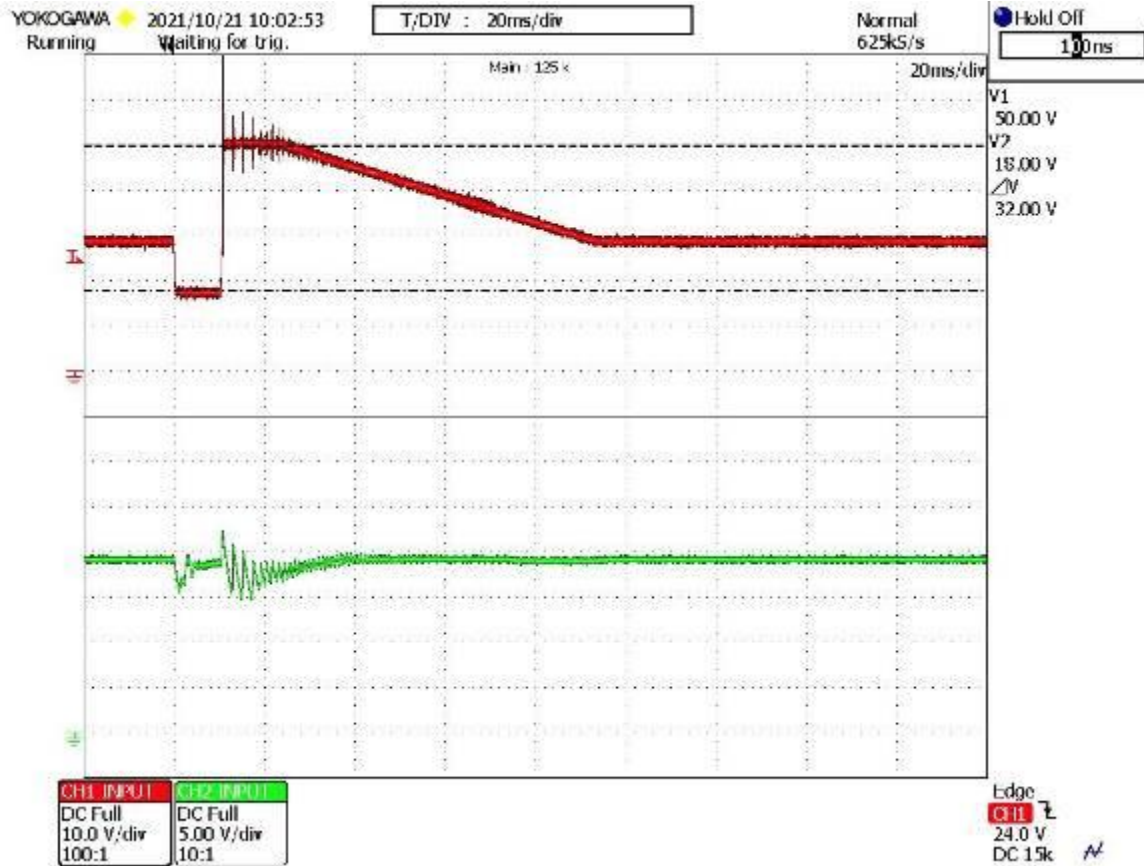


Figure E-130: LDC105, Condition QQ, test application with cursor amplitude measurement

Red trace = input voltage

Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

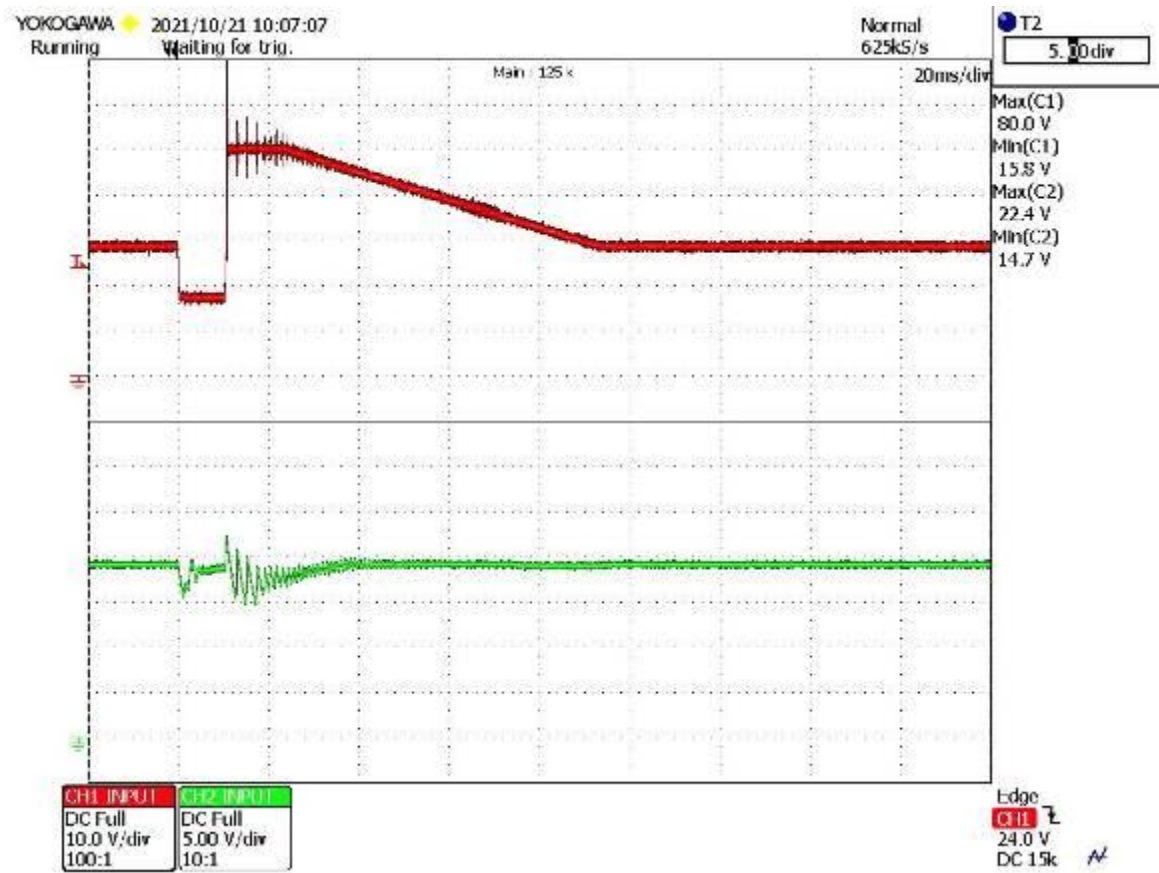


Figure E-131: LDC105, Condition QQ, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

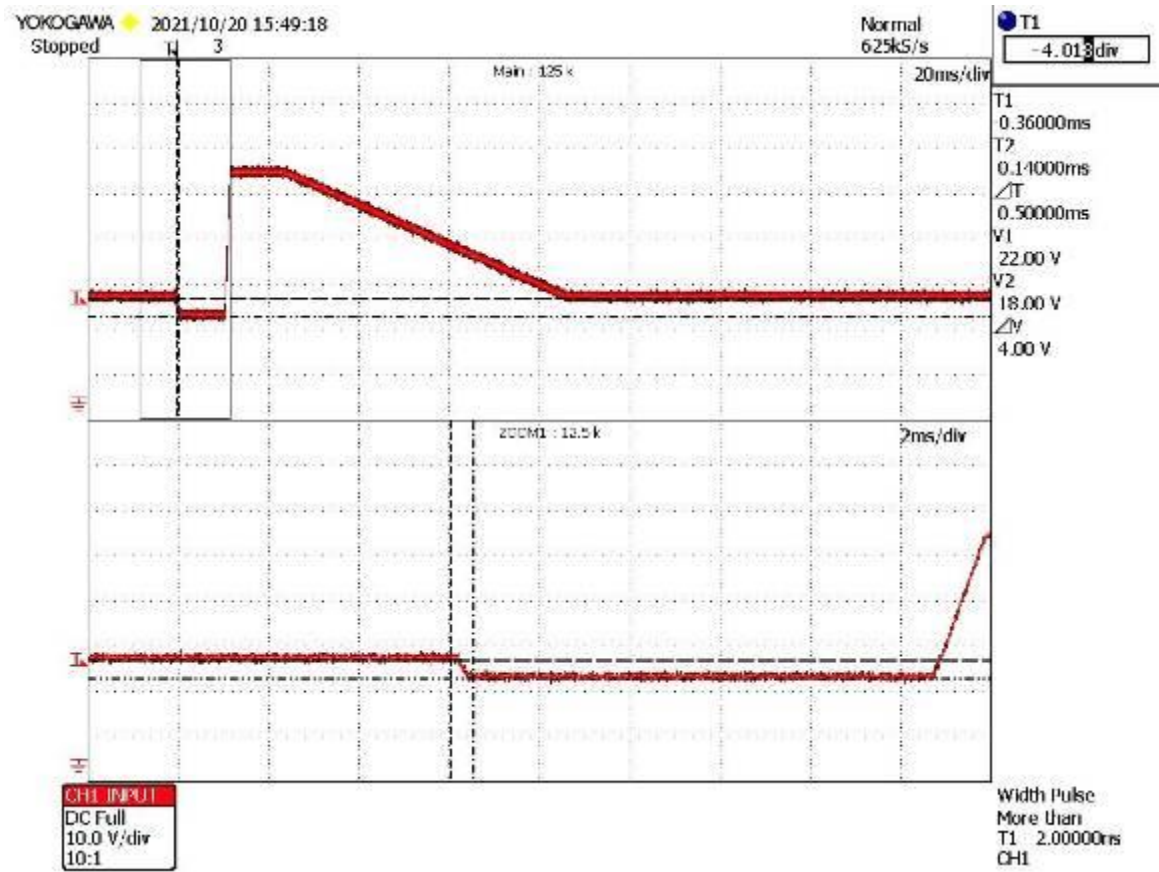


Figure E-132: LDC105, Condition RR, waveform verification, steady state and first transient fall

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

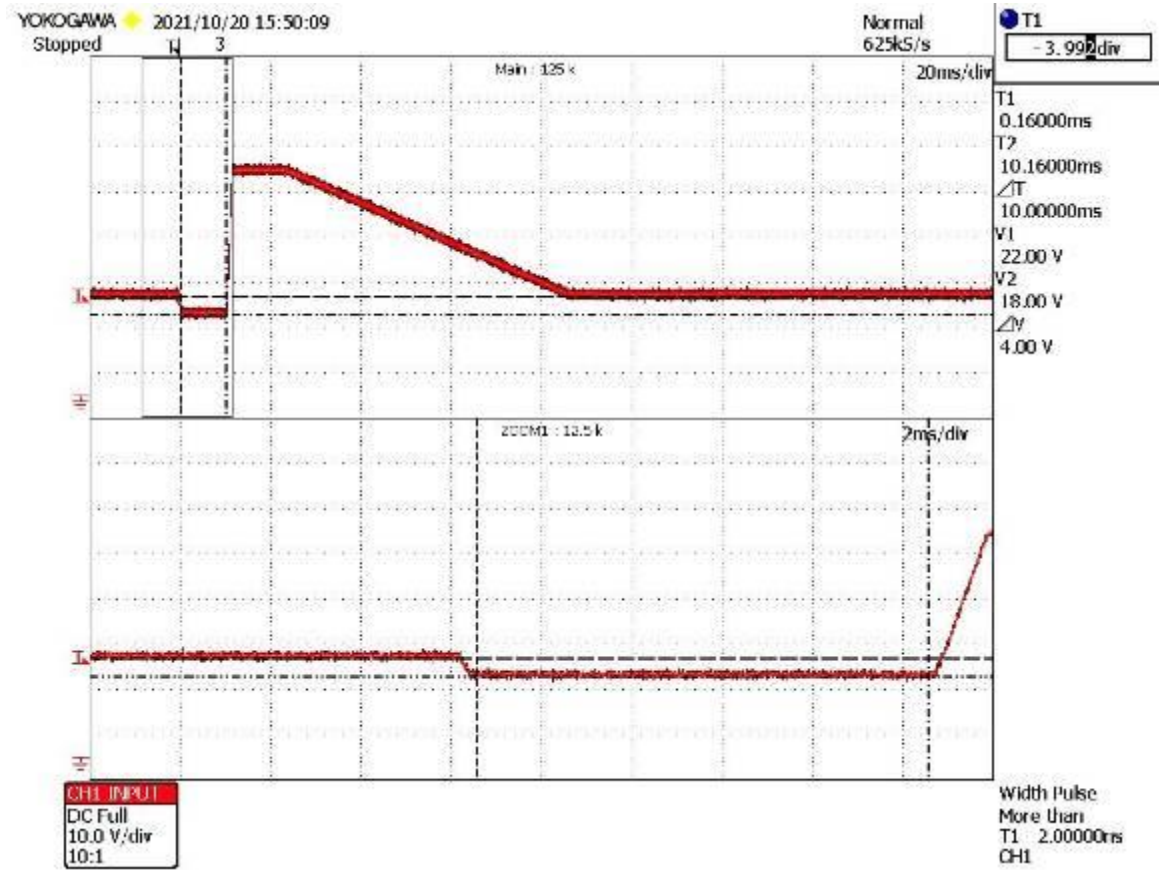


Figure E-133: LDC105, Condition RR, waveform verification, first transient duration

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

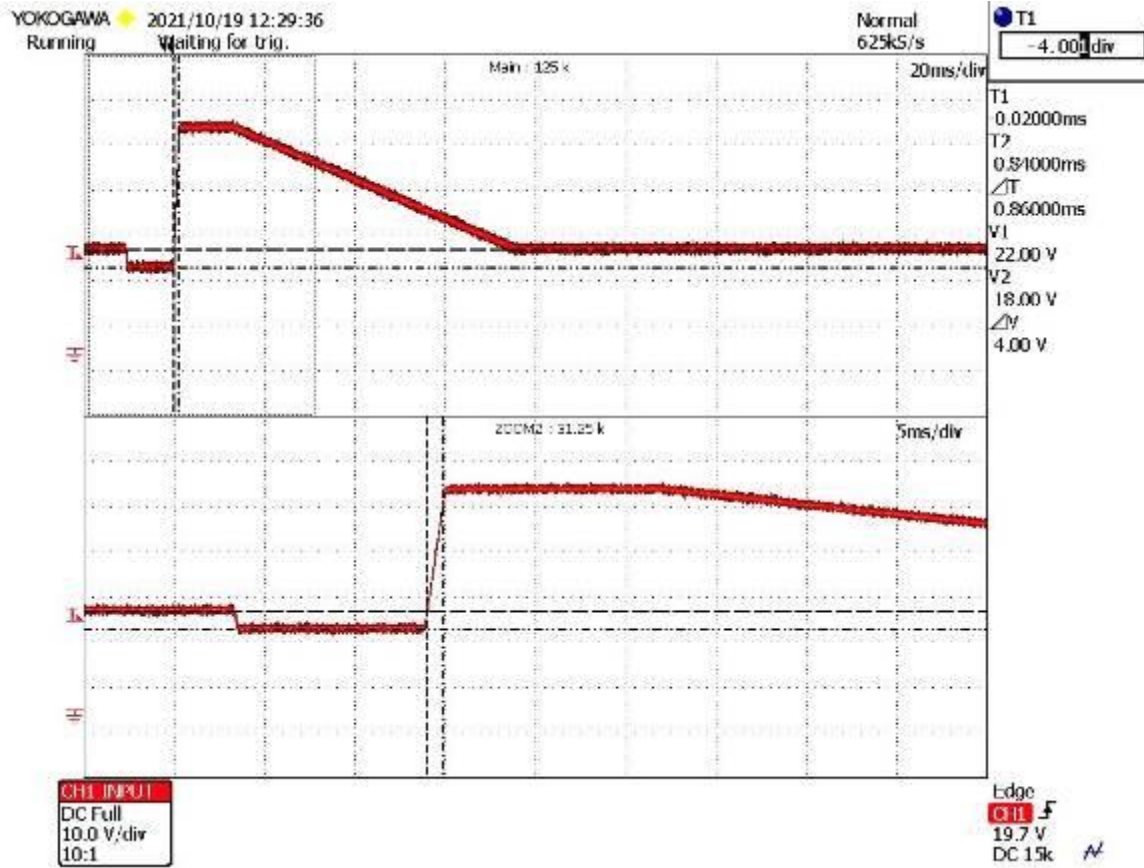
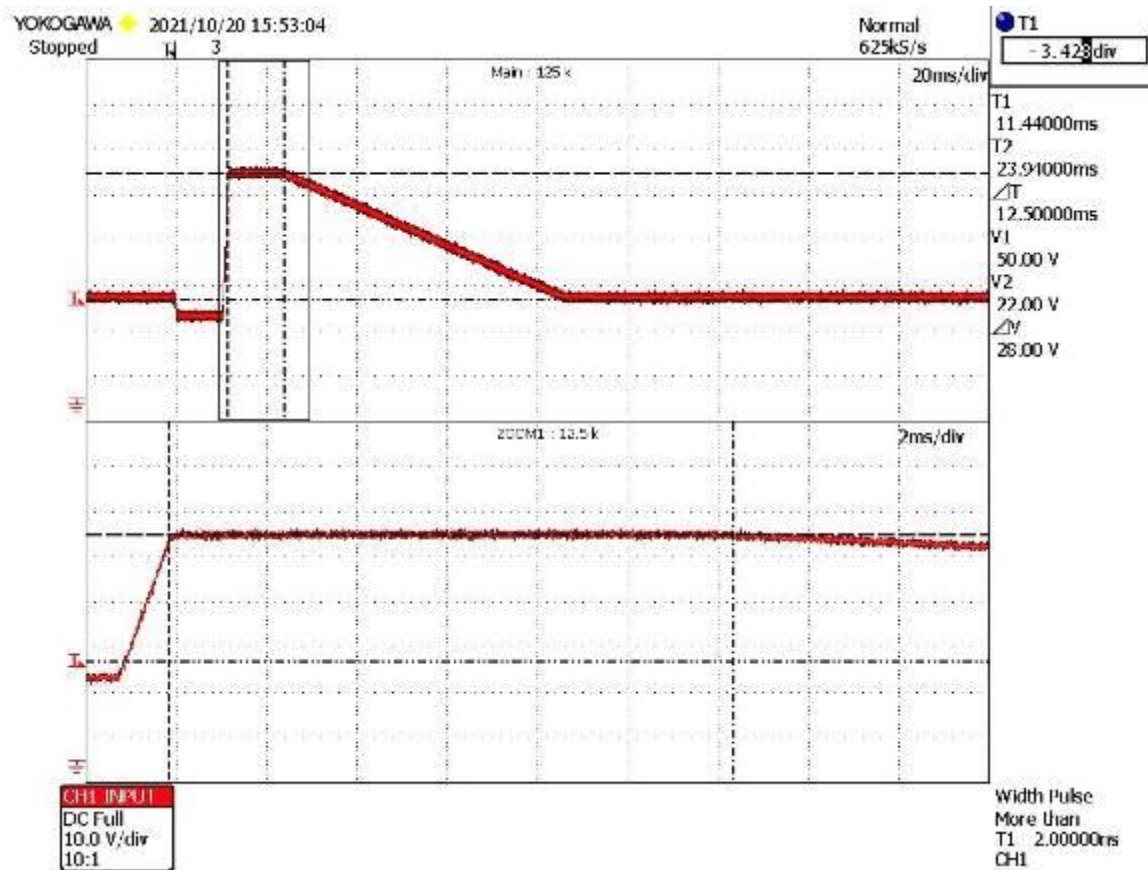


Figure E-134: LDC105, Condition RR, waveform verification, first transient to second transient rise time

Red trace = input voltage

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2



Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

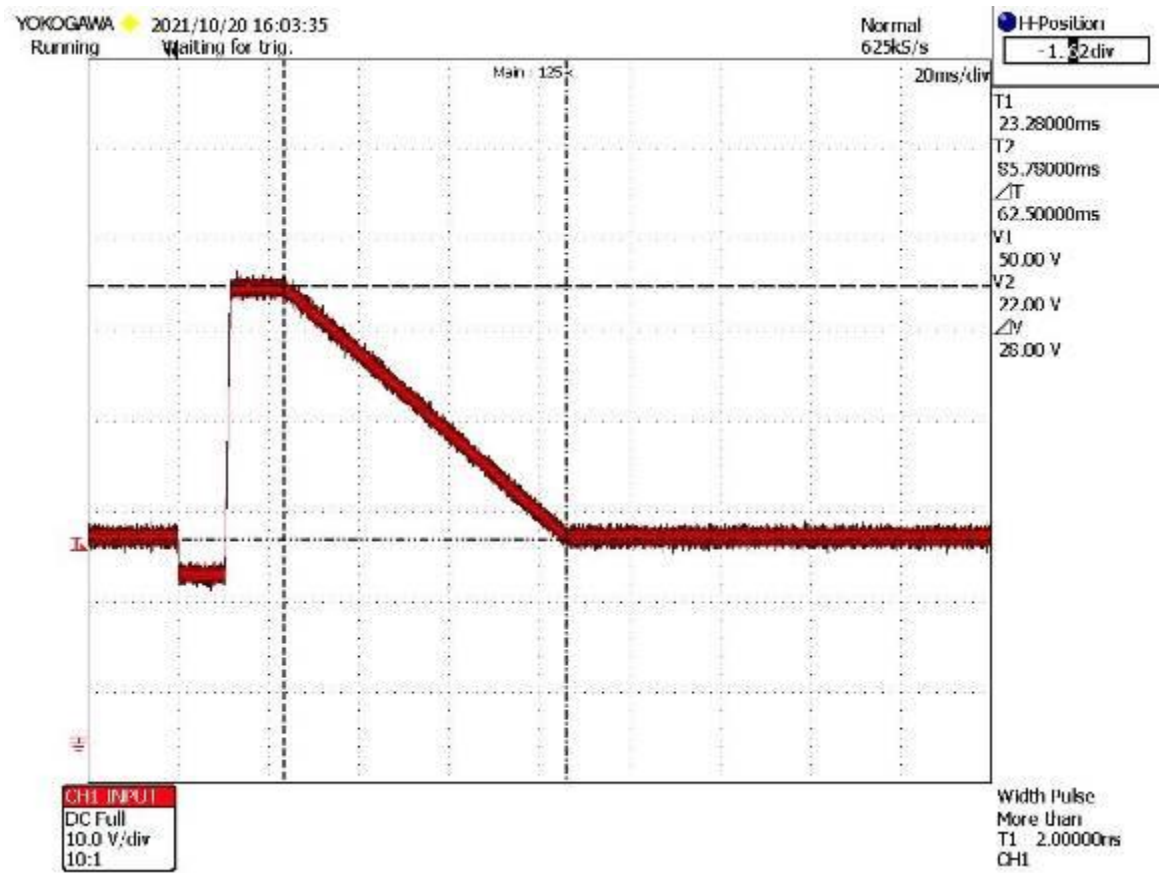


Figure E-136: LDC105, Condition RR, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

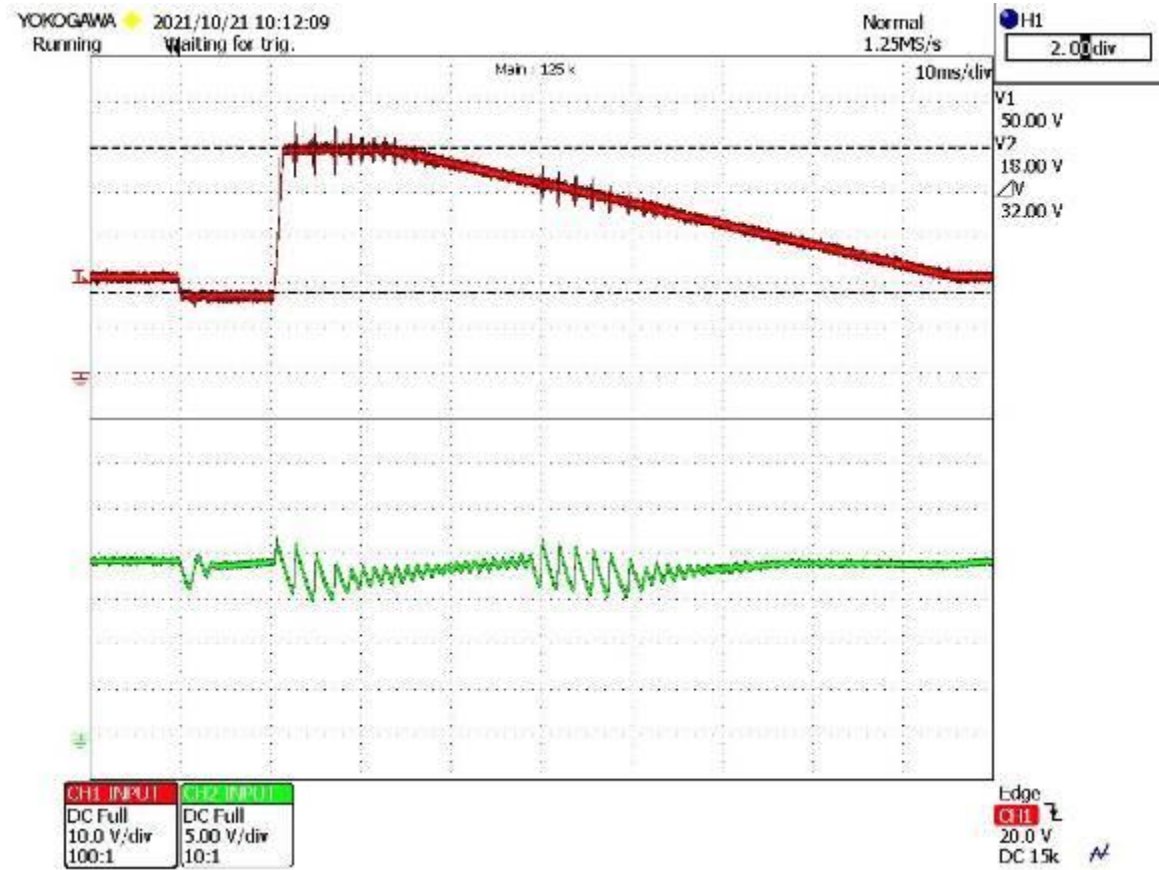


Figure E-137: LDC105, Condition RR, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

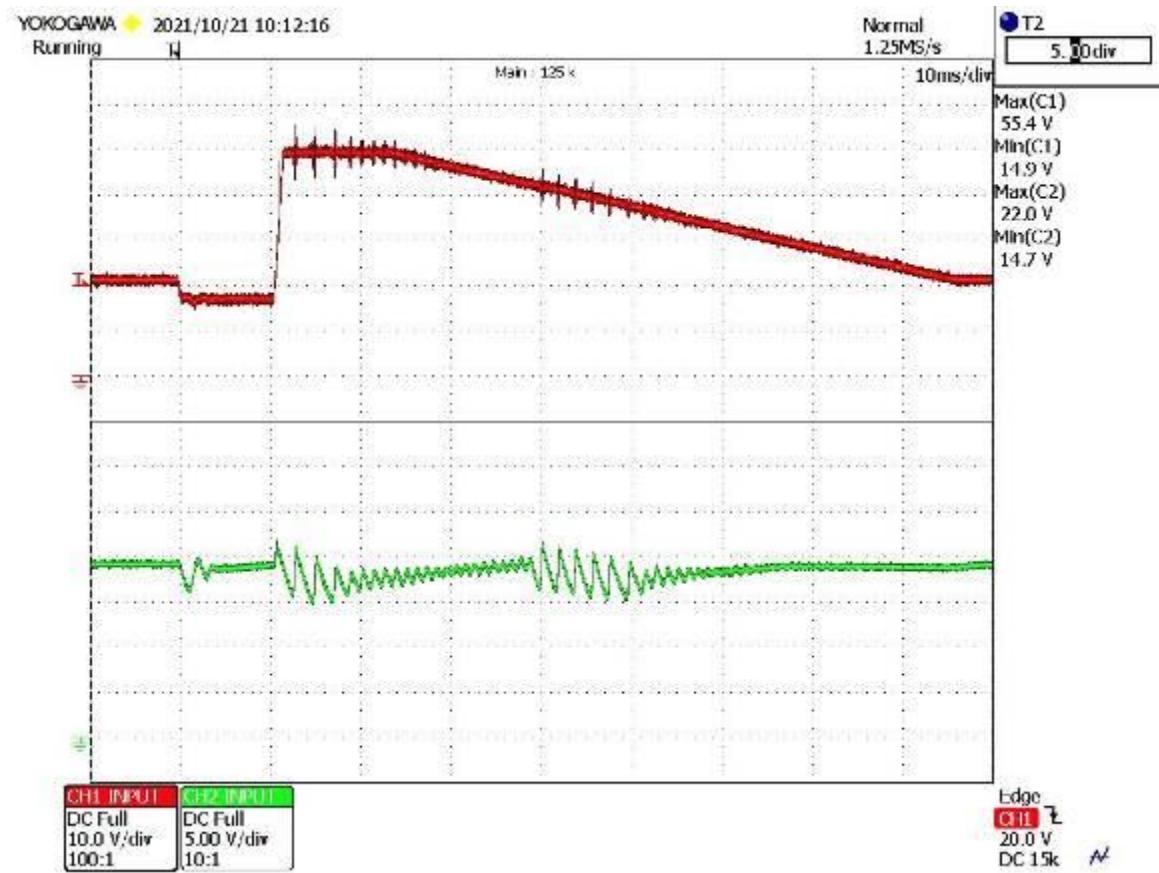


Figure E-138: LDC105, Condition RR, test application with minimum and maximum measurement

Red trace = input voltage
 Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

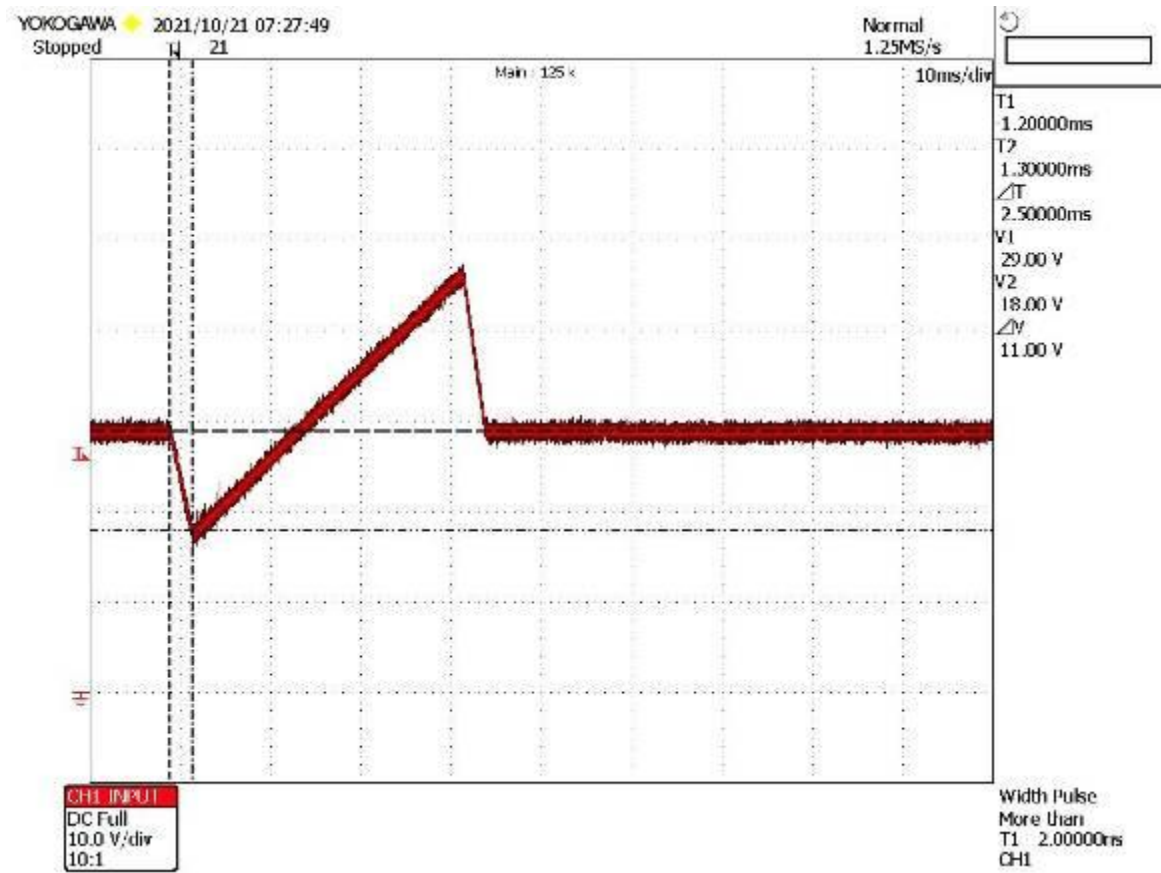


Figure E-139: LDC105, Repetitive Transient, waveform verification, steady state and first transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

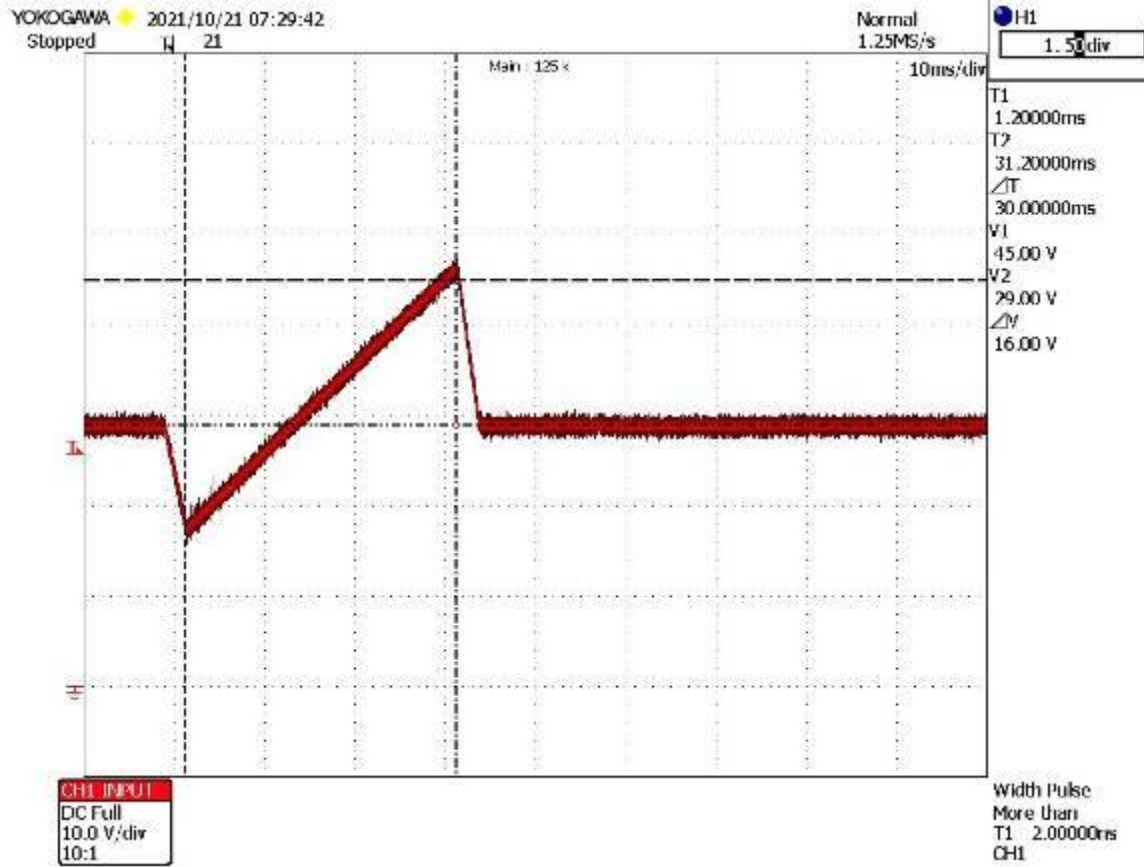


Figure E-140: LDC105, Repetitive Transient, waveform verification, first transient to second transient rise time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

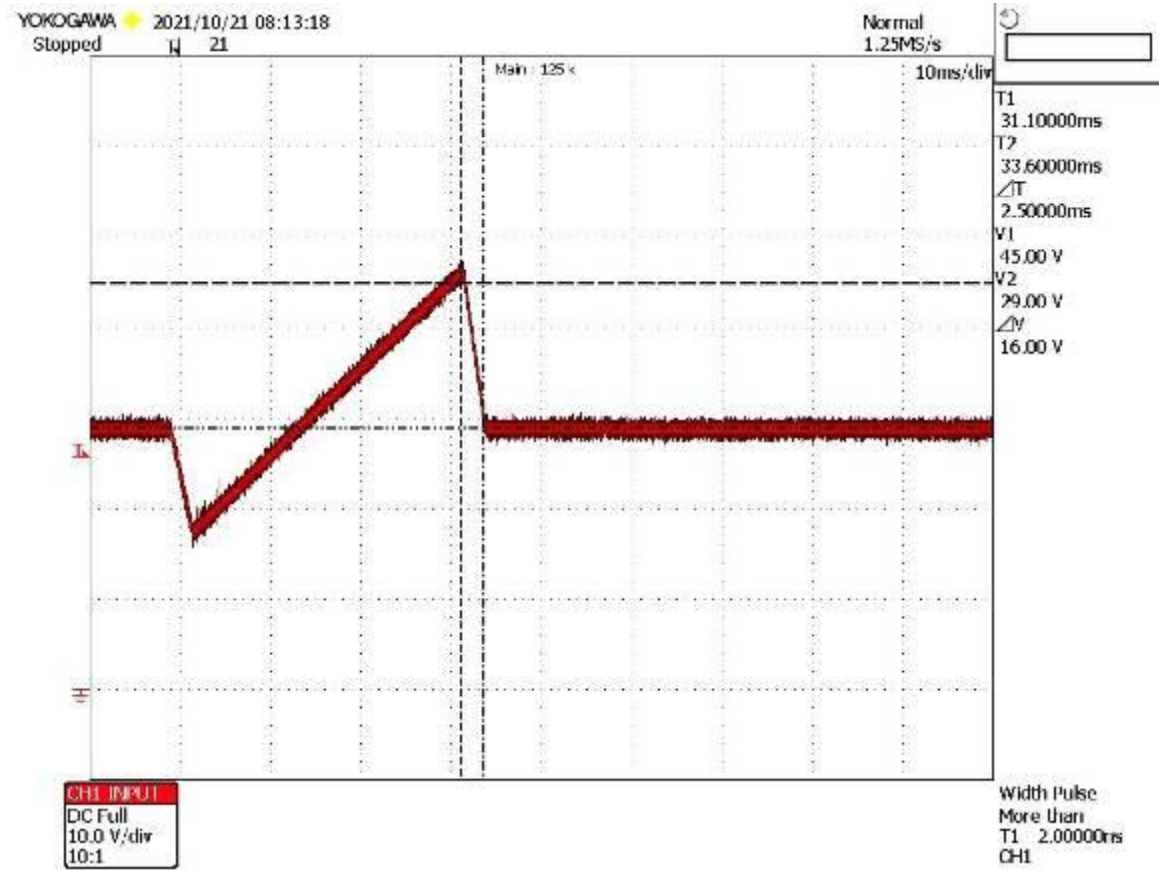


Figure E-141: LDC105, Repetitive Transient, waveform verification, second transient fall time

Red trace = input voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

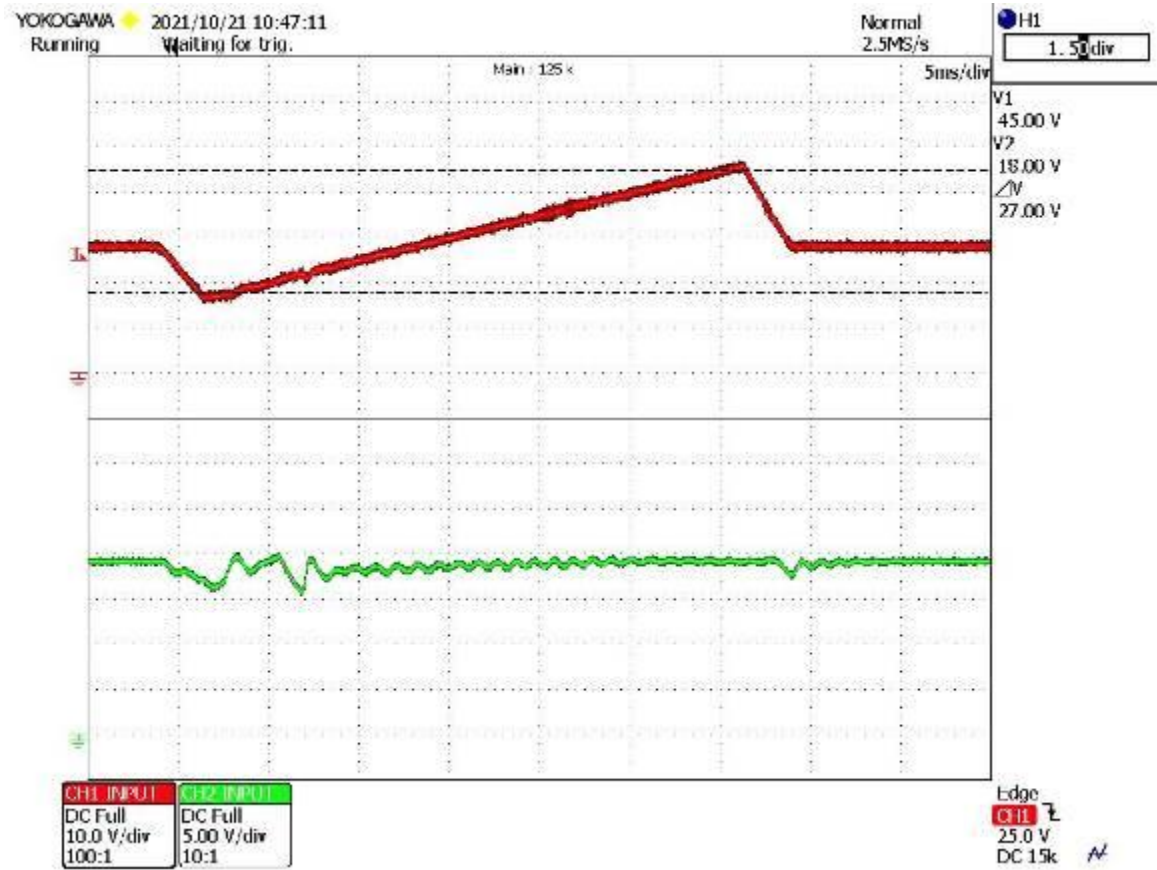


Figure E-142: LDC105, Repetitive Transient, test application with cursor amplitude measurement

Red trace = input voltage
Green trace = output voltage



Data sheet

LDC105 Normal Operation, Voltage Transients and Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC105		
DUT description	DC/DC Converter	Test date(s)	10/18/2021 to 10/21/2021	Location	Groundplane G2

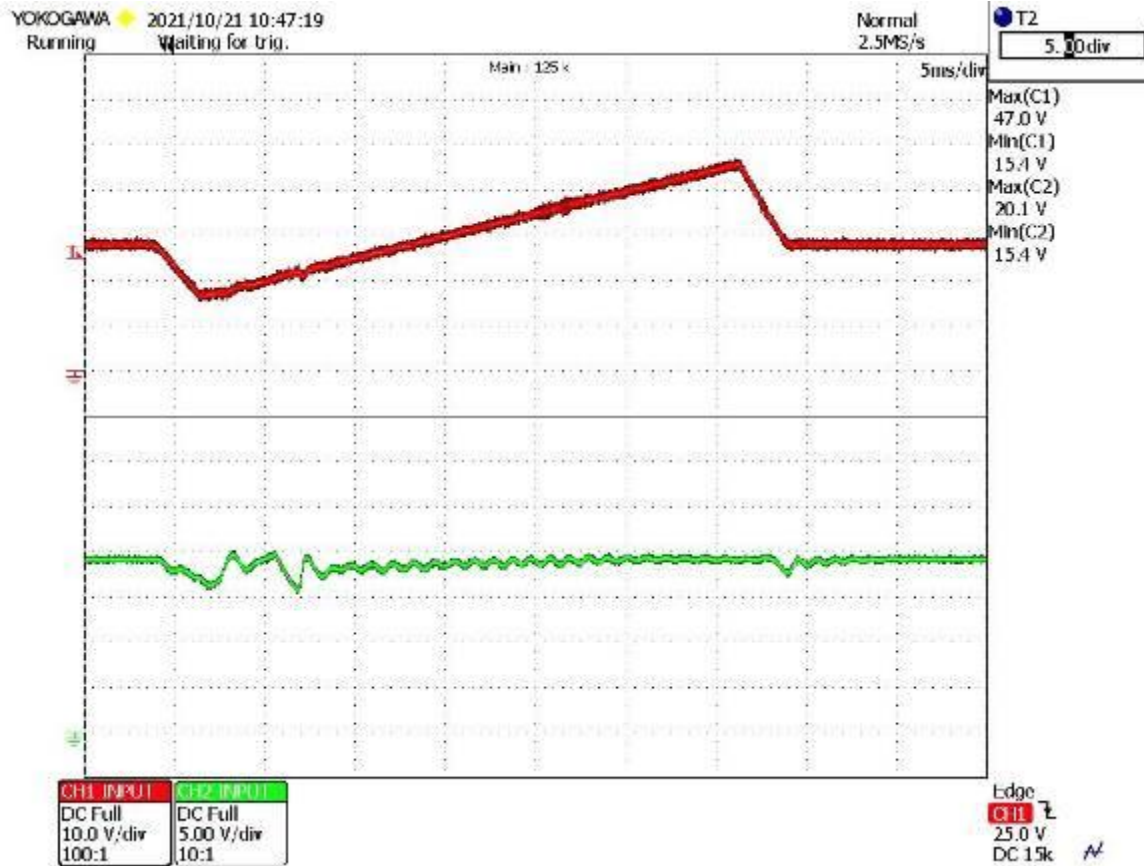


Figure E-143: LDC105, Repetitive Transient, test application with minimum and maximum measurement

Red trace = input voltage
Green trace = output voltage

Appendix F: LDC201 Power Interrupt



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-153	Amplifier	N/A	310-048	Arbitrary waveform generator	N/A	
300-037	Oscilloscope	X	230-130	Differential probe	X	
230-123	Differential probe	X	230-124	Current probe	X	
380-549	DC power supply	N/A	210-059	Multimeter	X	
400-060	Stopwatch	X				

LDC201 Power Transfer, Power Interrupt Test results							CTD = customer to determine
Test condition	Duration of interrupt	Nominal voltage	EUT mode	Repetitions	Result	Notes	
A	50 mSec	28 Vdc	N/A	N/A	N/A	Figures F-1 through F-4, waveform verification	
A	50 mSec	28 Vdc	Powered	5	CTD	Figure F-5, power loss noted; recovered after transient pulse.	
B	50 mSec	22 Vdc	N/A	N/A	N/A	Figures F-6 through F-9, waveform verification	
B	50 mSec	22 Vdc	Powered	5	CTD	Figure F-10, power loss noted; recovered after transient pulse.	
C	50 mSec	29 Vdc	N/A	N/A	N/A	Figures F-11 through F-14, waveform verification	
C	50 mSec	29 Vdc	Powered	5	CTD	Figure F-15, power loss noted; recovered after transient pulse.	
D	30 mSec	28 Vdc	N/A	N/A	N/A	Figures F-16 through F-19, waveform verification	
D	30 mSec	28 Vdc	Powered	5	CTD	Figure F-20, power loss noted; recovered after transient pulse.	
E	30 mSec	22 Vdc	N/A	N/A	N/A	Figures F-21 through F-24, waveform verification	
E	30 mSec	22 Vdc	Powered	5	CTD	Figure F-25, power loss noted; recovered after transient pulse.	
F	30 mSec	29 Vdc	N/A	N/A	N/A	Figures F-26 through F-29, waveform verification	
F	30 mSec	29 Vdc	Powered	5	CTD	Figure F-30, power loss noted; recovered after transient pulse.	
G	10 mSec	28 Vdc	N/A	N/A	N/A	Figures F-31 through F-34, waveform verification	
G	10 mSec	28 Vdc	Powered	5	CTD	Figure F-35, power loss noted; recovered after transient pulse.	
H	10 mSec	22 Vdc	N/A	N/A	N/A	Figures F-36 through F-39, waveform verification	
H	10 mSec	22 Vdc	Powered	5	CTD	Figure F-40, power loss noted; recovered after transient pulse.	
I	10 mSec	29 Vdc	N/A	N/A	N/A	Figures F-41 through F-44, waveform verification	
I	10 mSec	29 Vdc	Powered	5	CTD	Figure F-45, power loss noted; recovered after transient pulse.	
J	50 mSec, 3 times, separated by 0.5 sec	28 Vdc	N/A	N/A	N/A	Figures F-46 through F-50, waveform verification	



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ	
Project number	62293	Specification	MIL-STD-704F, LDC201			
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2	
LDC201 Power Transfer, Power Interrupt Test results						
CTD = customer to determine						
Test condition	Duration of interrupt	Nominal voltage	EUT mode	Repetitions	Result	Notes
J	50 mSec, 3 times, separated by 0.5 sec	28 Vdc	Powered	5	CTD	Figure F-51, power loss noted; recovered after transient pulse.
K	50 mSec; followed by a normal voltage transient of 50 Vdc for 12.5 mSec and return to steady state voltage in 70 mSec	28 Vdc	N/A	N/A	N/A	Figures F-52 through F-57, waveform verification
K	50 mSec; followed by a normal voltage transient of 50 Vdc for 12.5 mSec and return to steady state voltage in 70 mSec	28 Vdc	Powered	5	CTD	Figure F-58, power loss noted; recovered after transient pulse.
L	50 mSec; followed by a normal voltage transient of 18 Vdc for 15 mSec and return to steady state voltage in 85 mSec	28 Vdc	N/A	N/A	N/A	Figures F-59 through F-64, waveform verification
L	50 mSec; followed by a normal voltage transient of 18 Vdc for 15 mSec and return to steady state voltage in 85 mSec	28 Vdc	Powered	5	CTD	Figure F-65, power loss noted; recovered after transient pulse.



Data sheet
LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

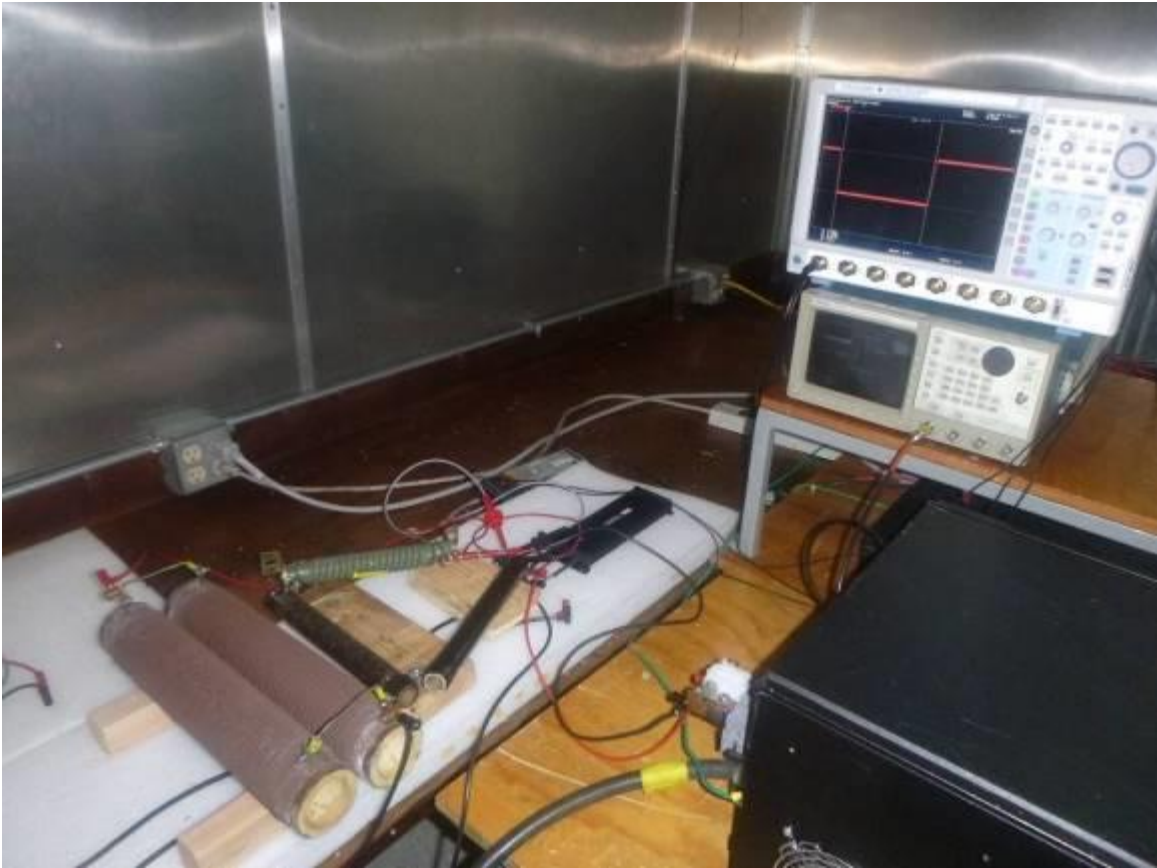


Photograph F-1: EUT identification



Data sheet
LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Photograph F-2: Waveform verification setup



Data sheet
LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Photograph F-3: Test setup



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

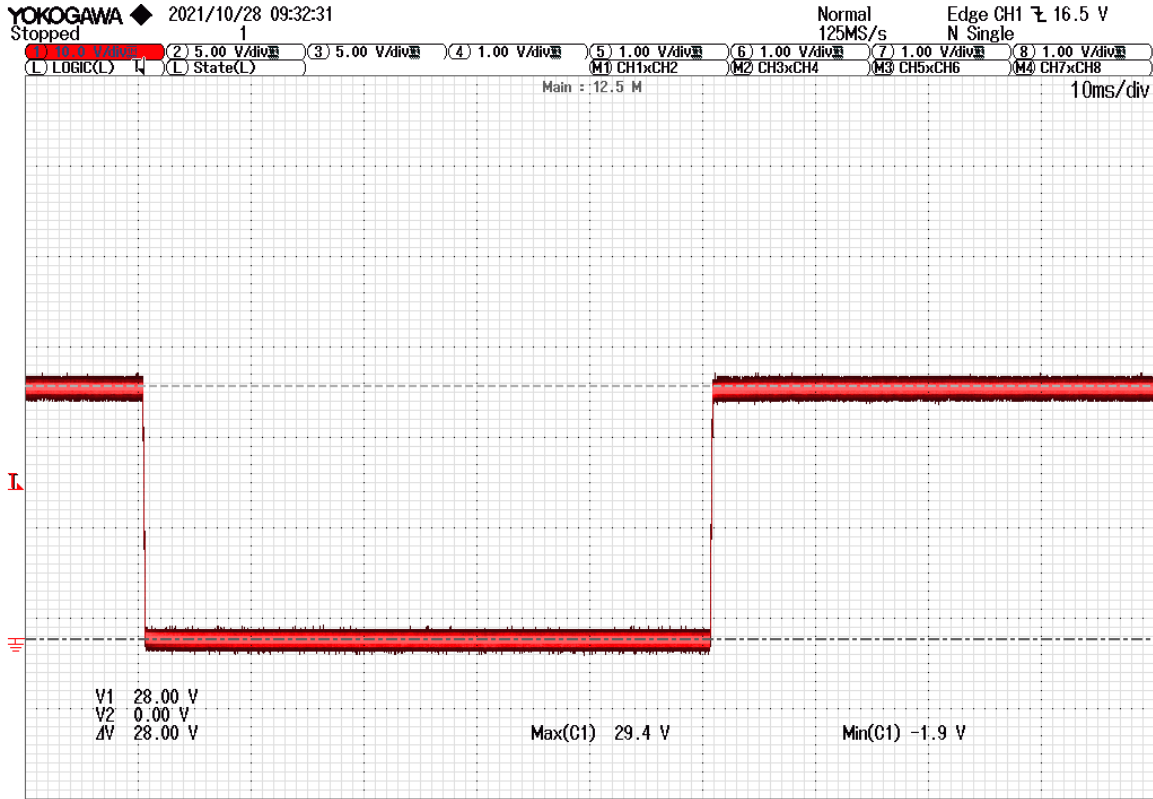


Figure F-1: Condition A, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

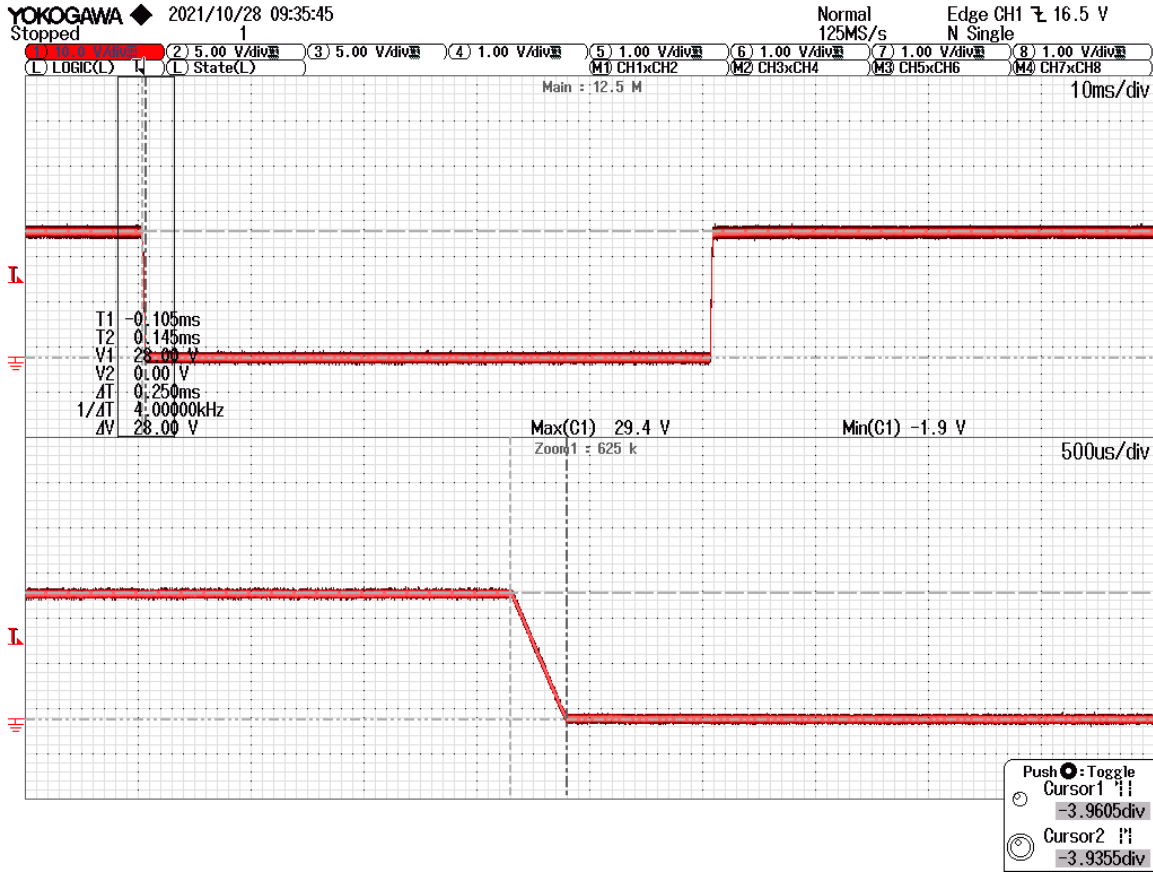


Figure F-2: Condition A, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

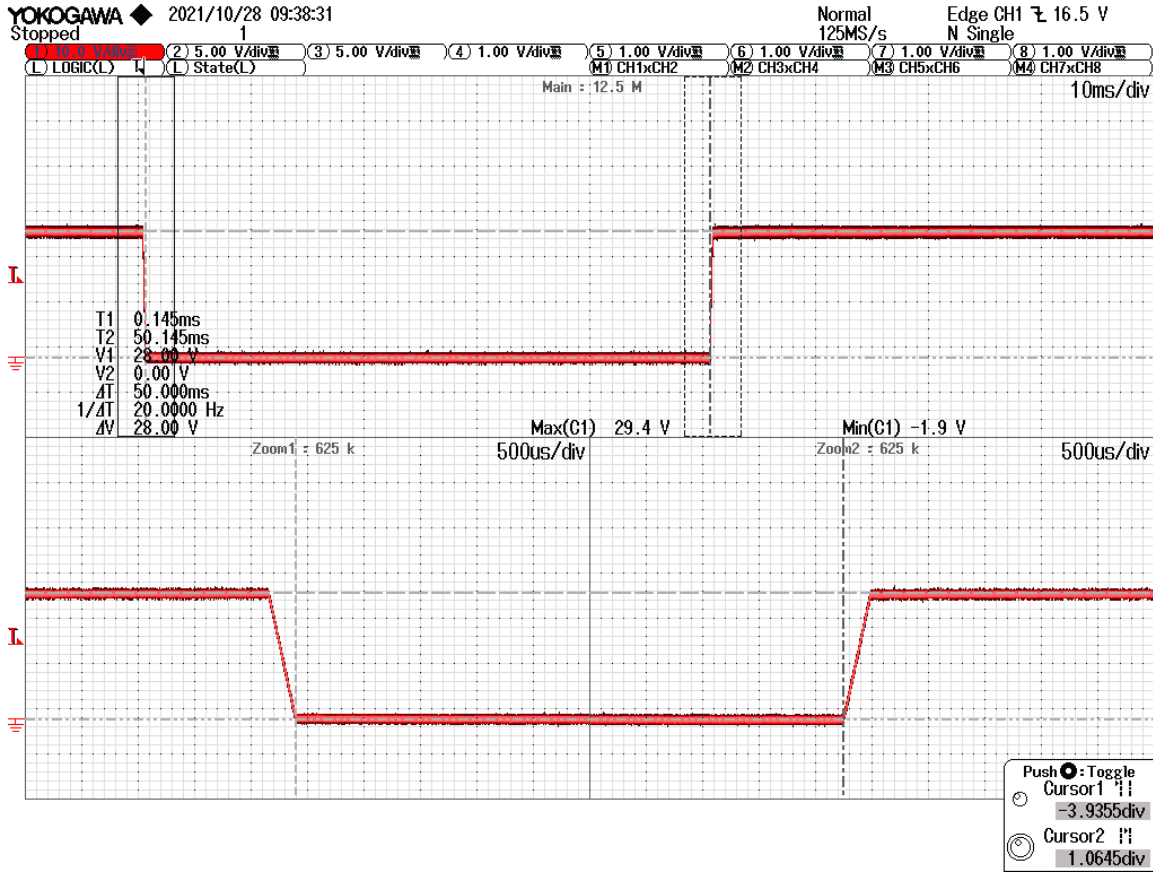


Figure F-3: Condition A, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

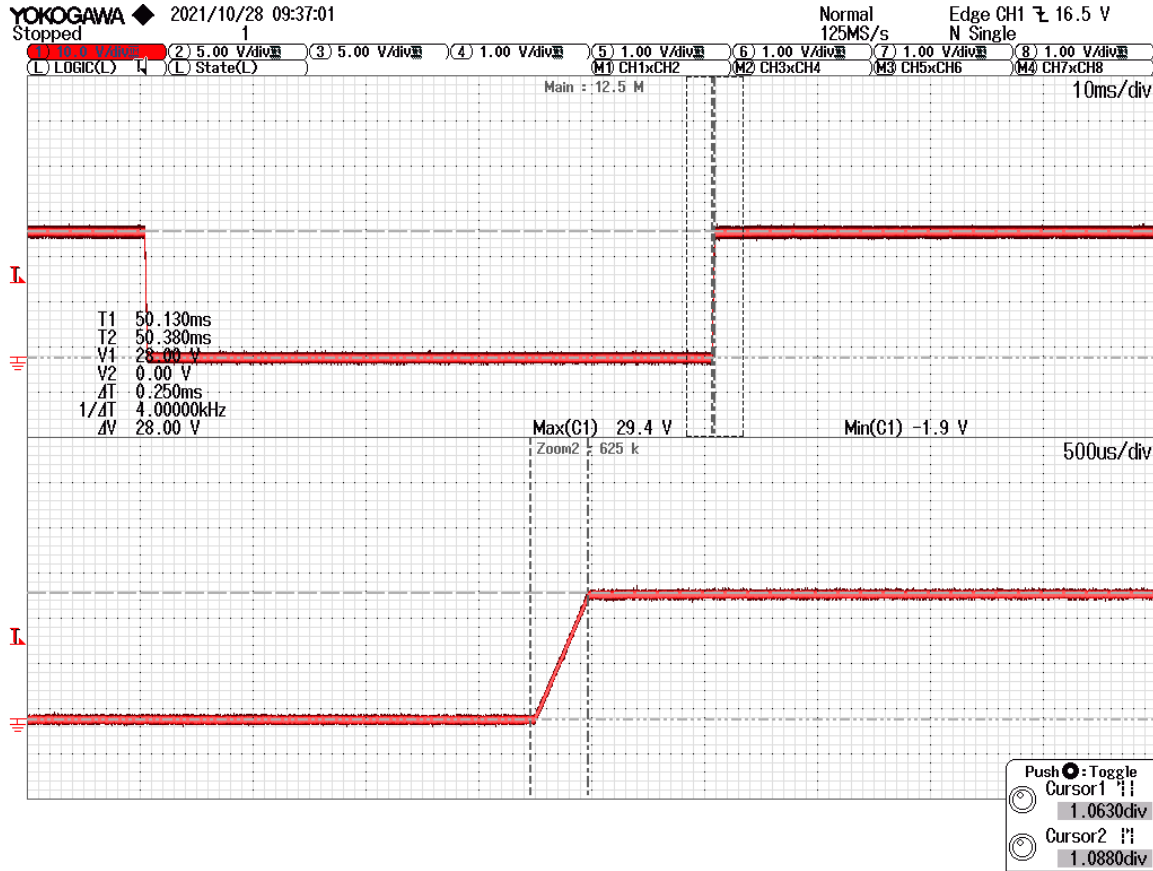


Figure F-4: Condition A, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

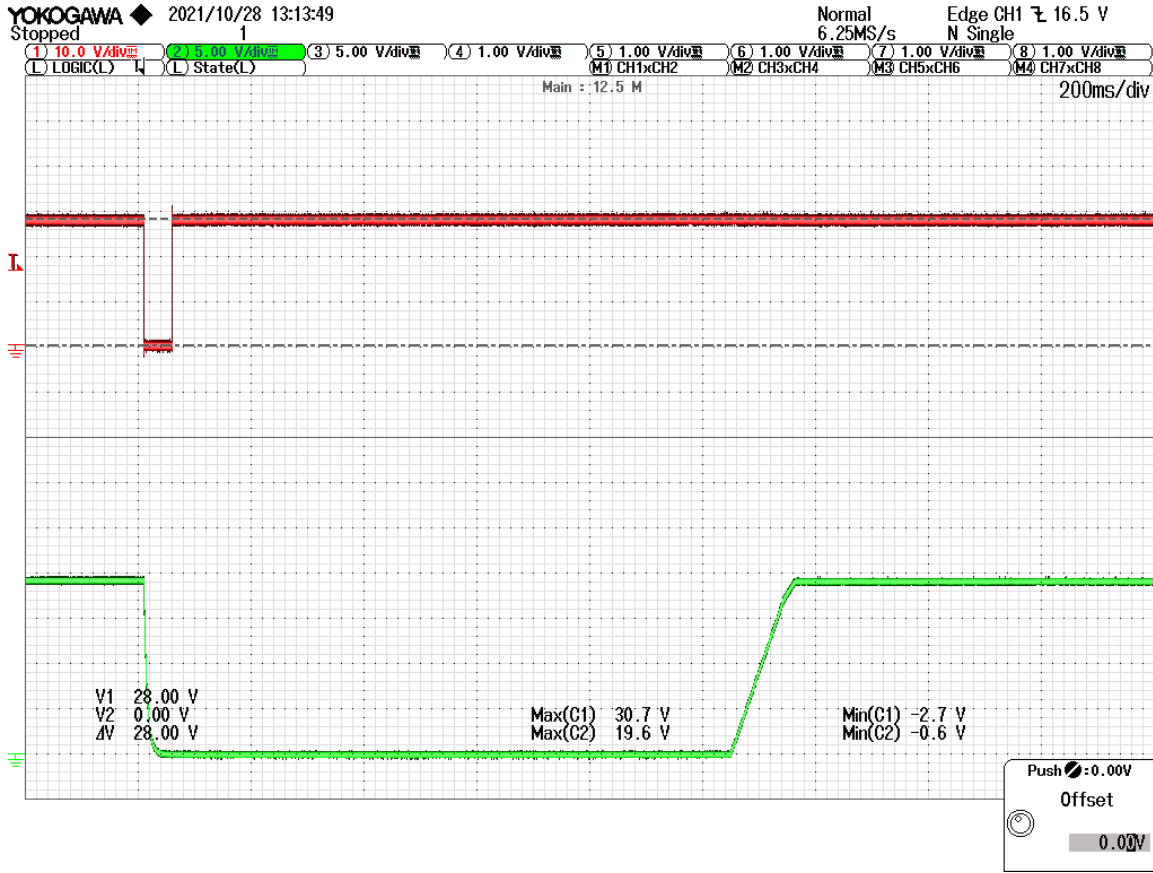


Figure F-5: Condition A, test application with cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

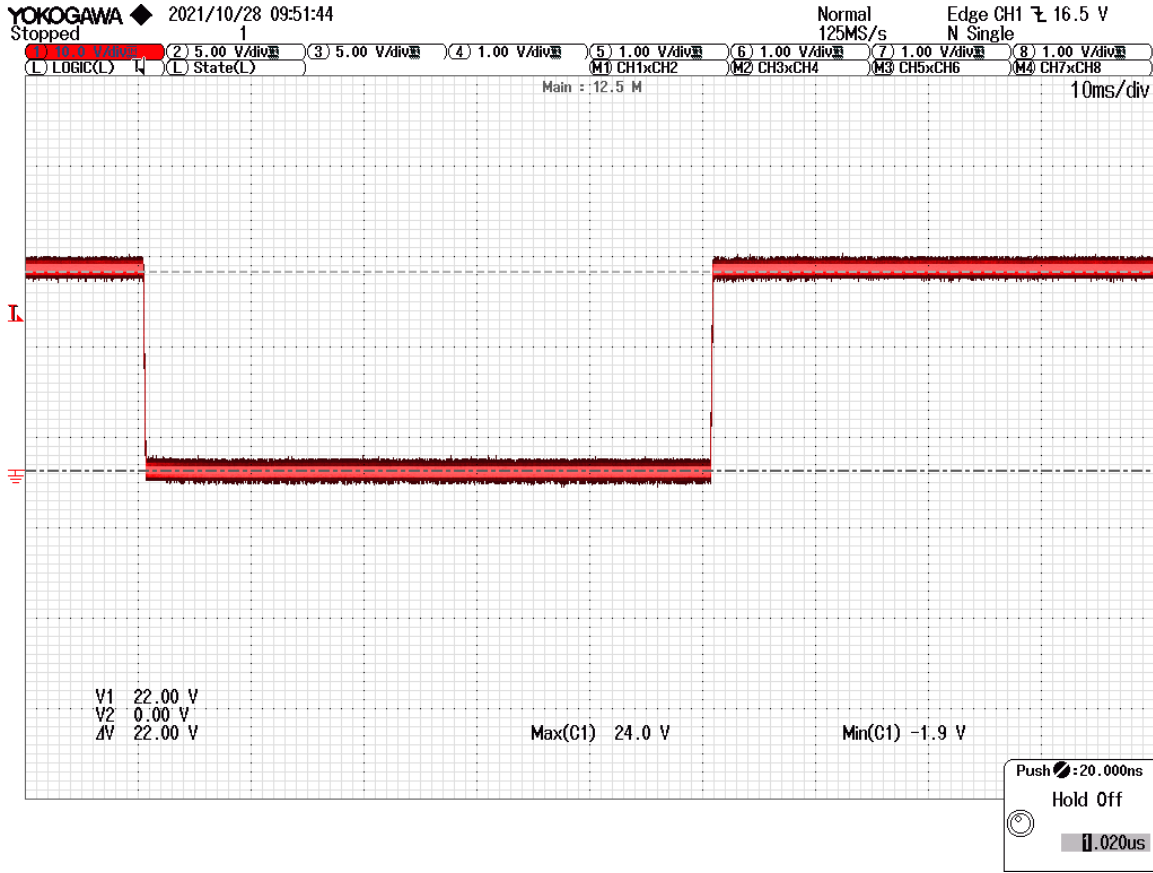


Figure F-6: Condition B, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

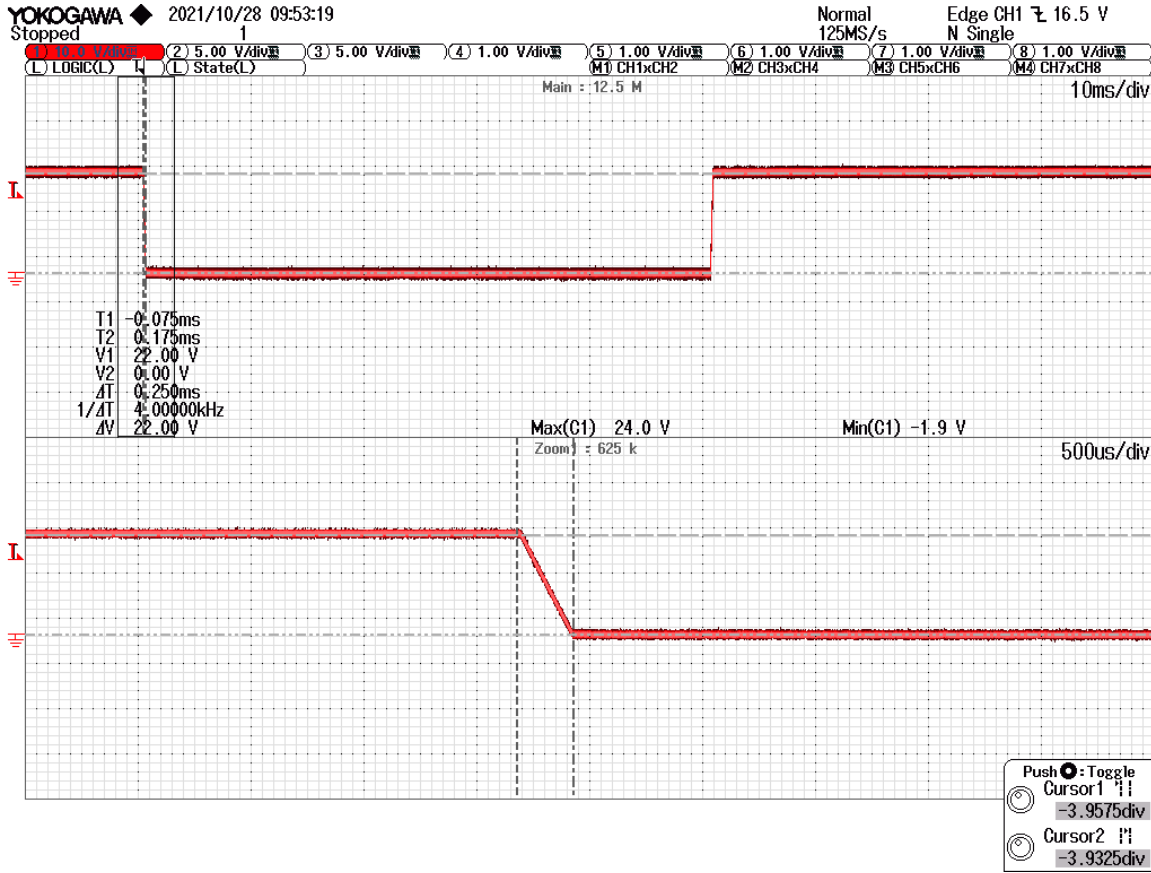


Figure F-7: Condition B, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

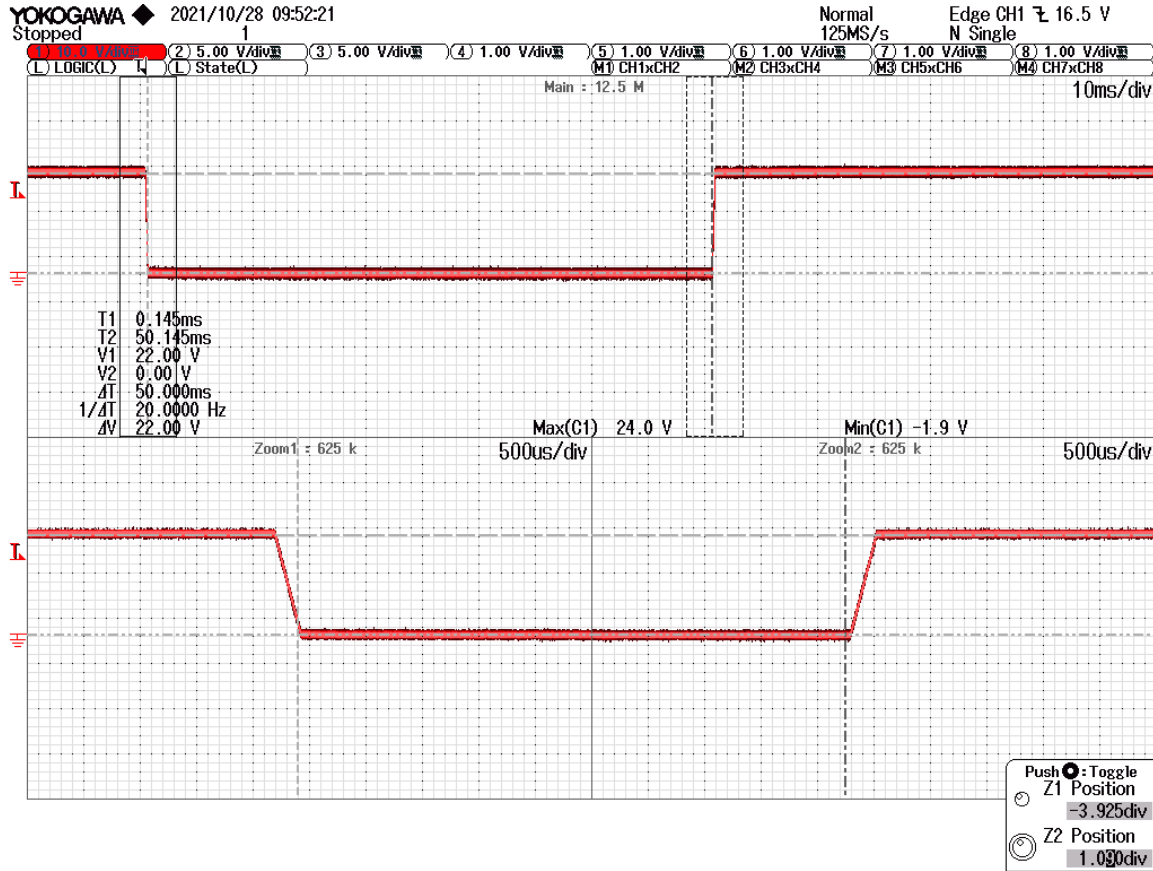


Figure F-8: Condition B, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

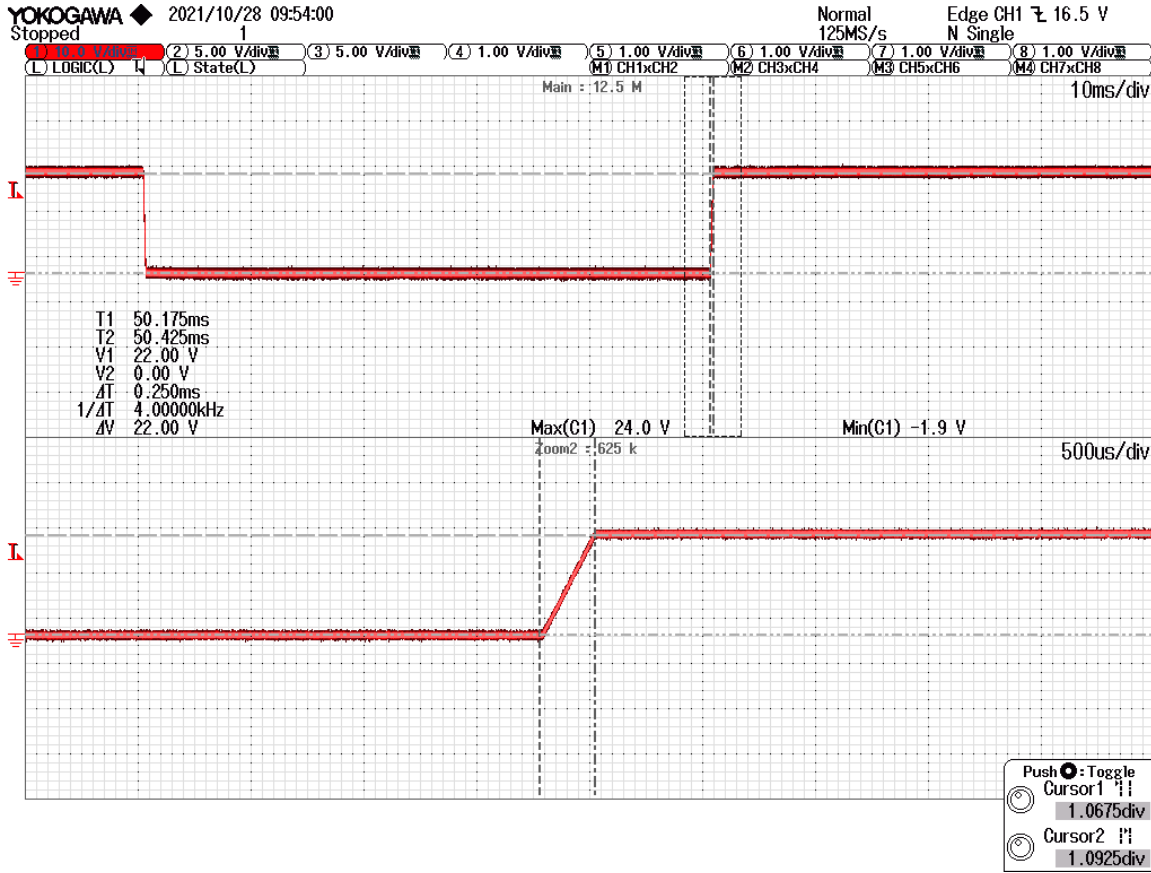


Figure F-9: Condition B, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

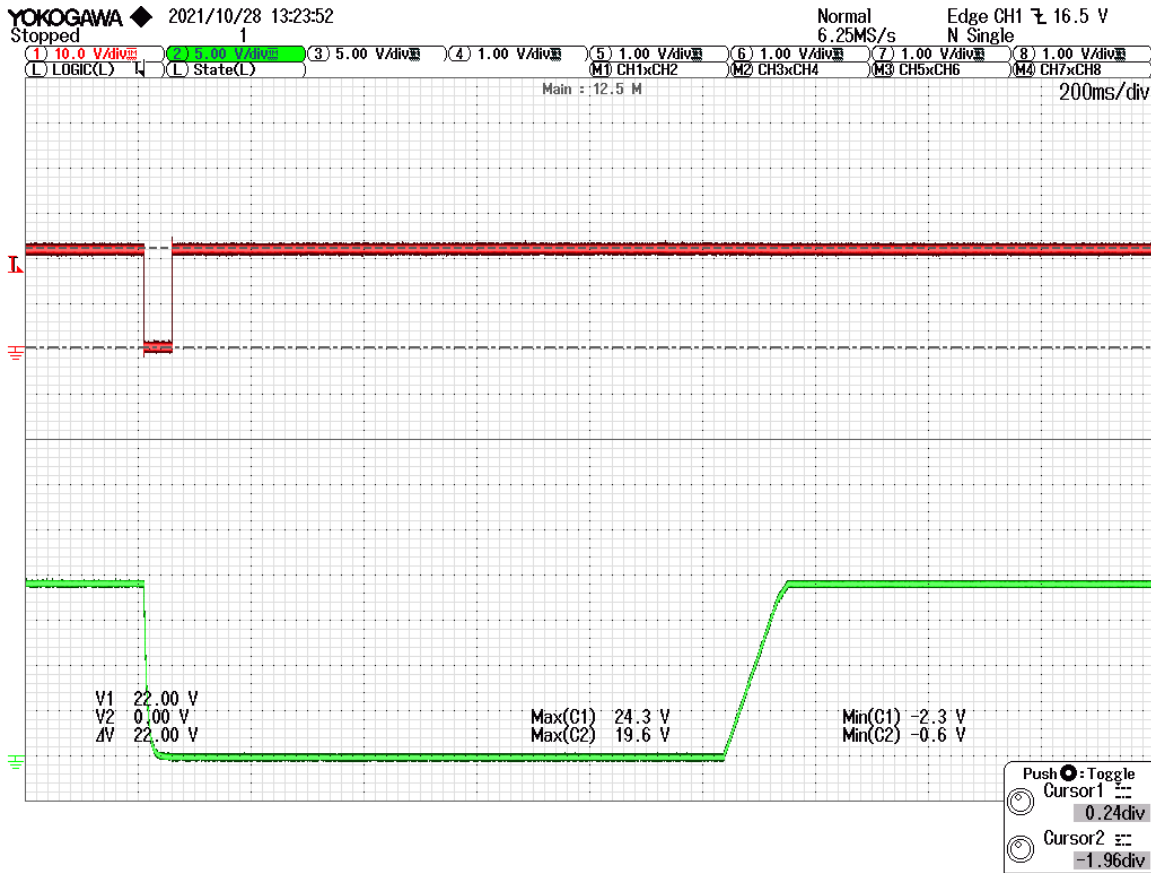


Figure F-10: Condition B, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

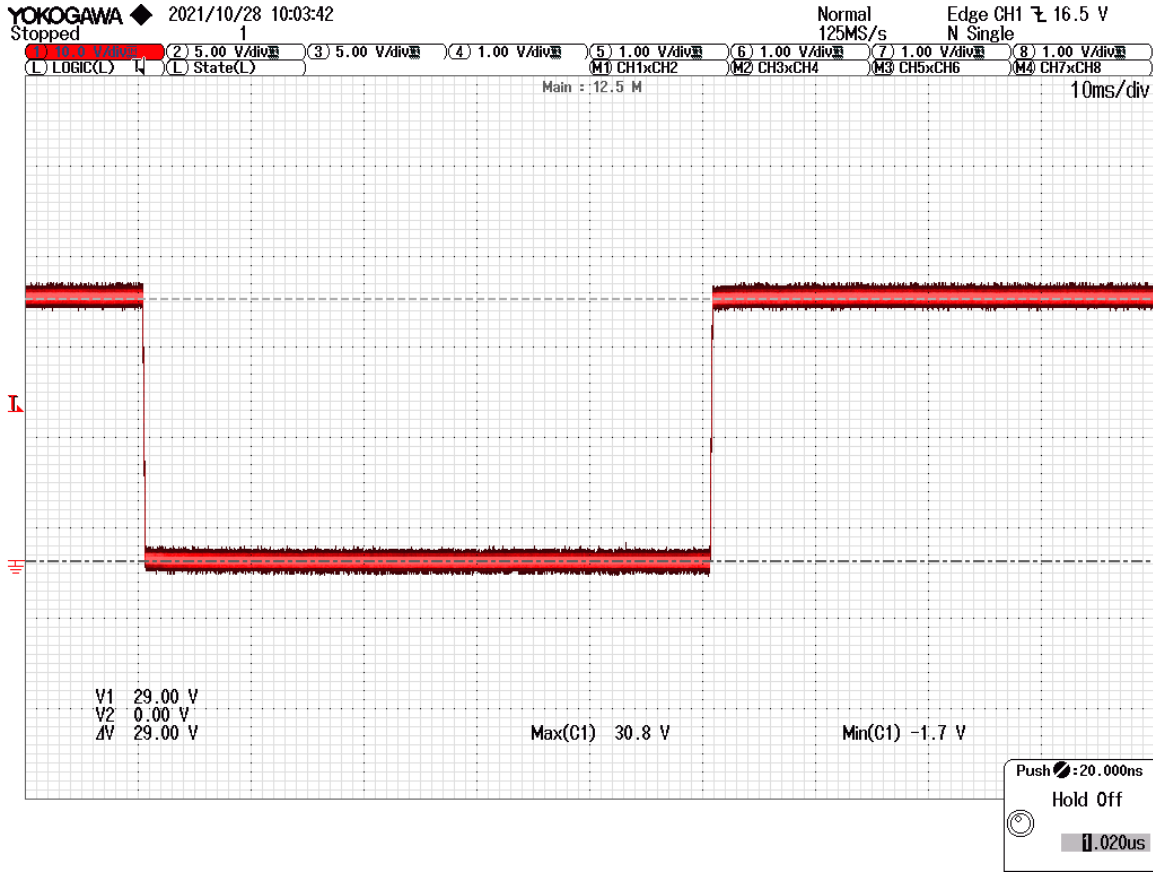


Figure F-11: Condition C, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

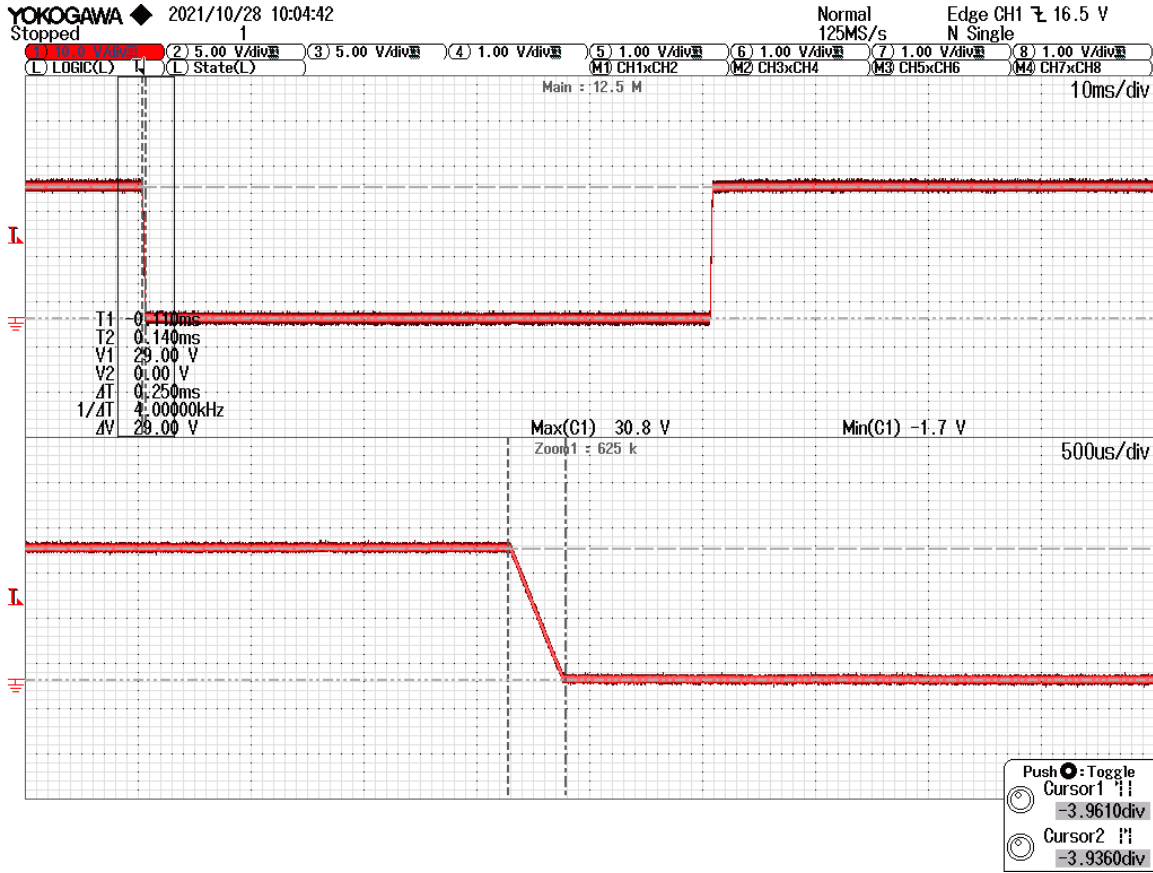


Figure F-12: Condition C, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

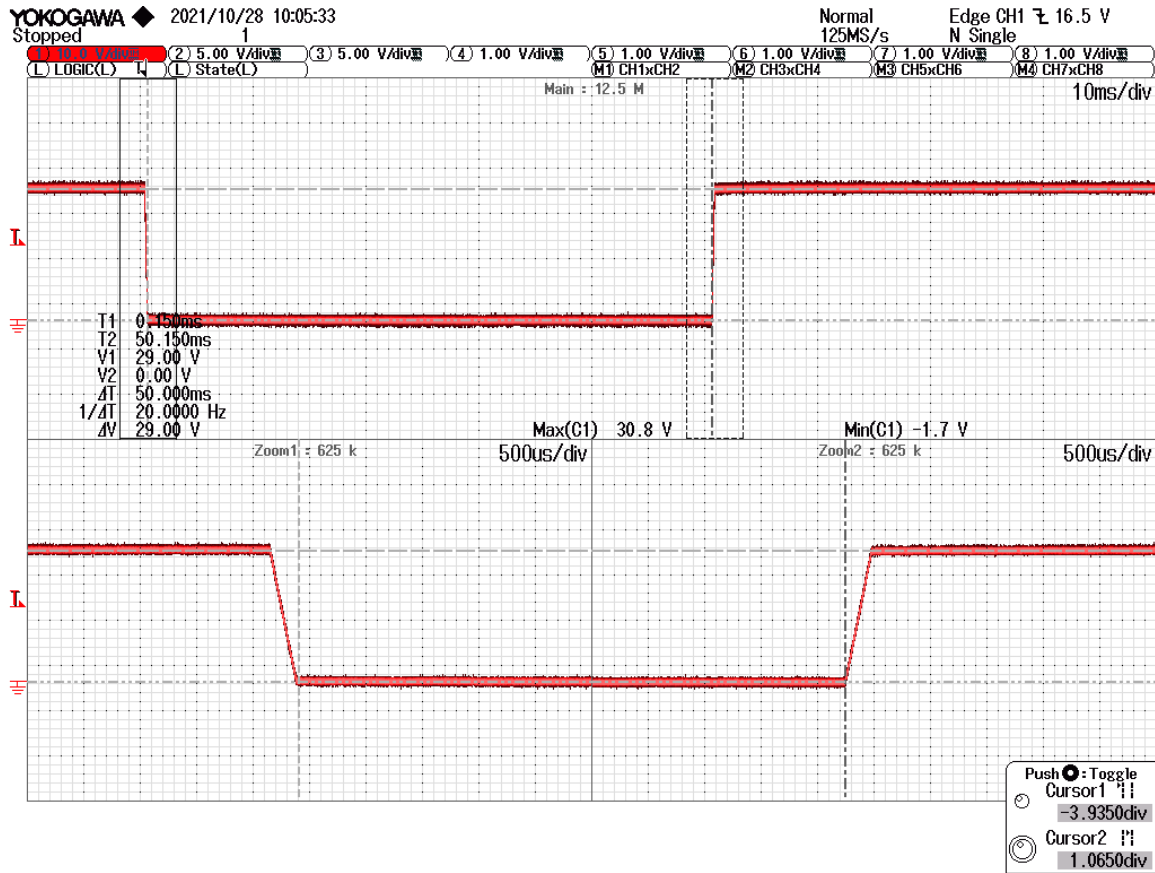


Figure F-13: Condition C, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

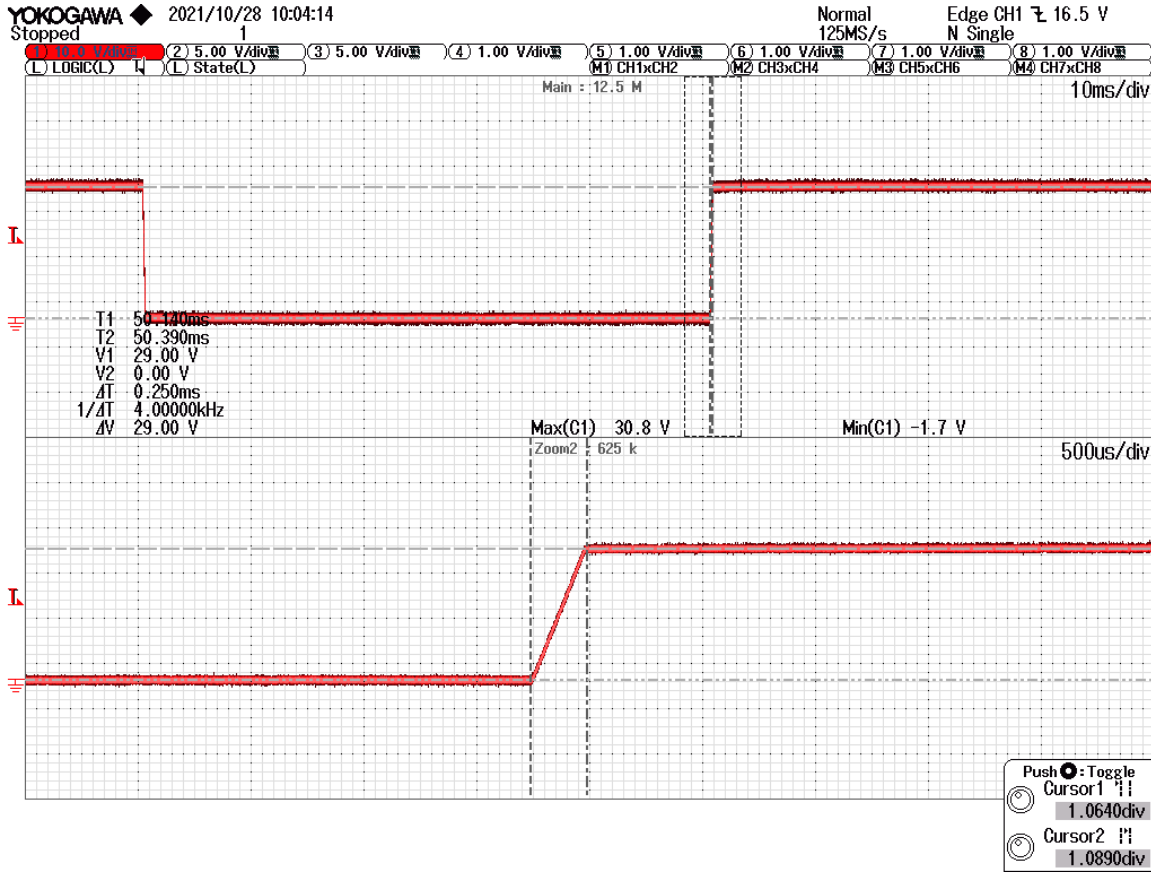


Figure F-14: Condition C, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

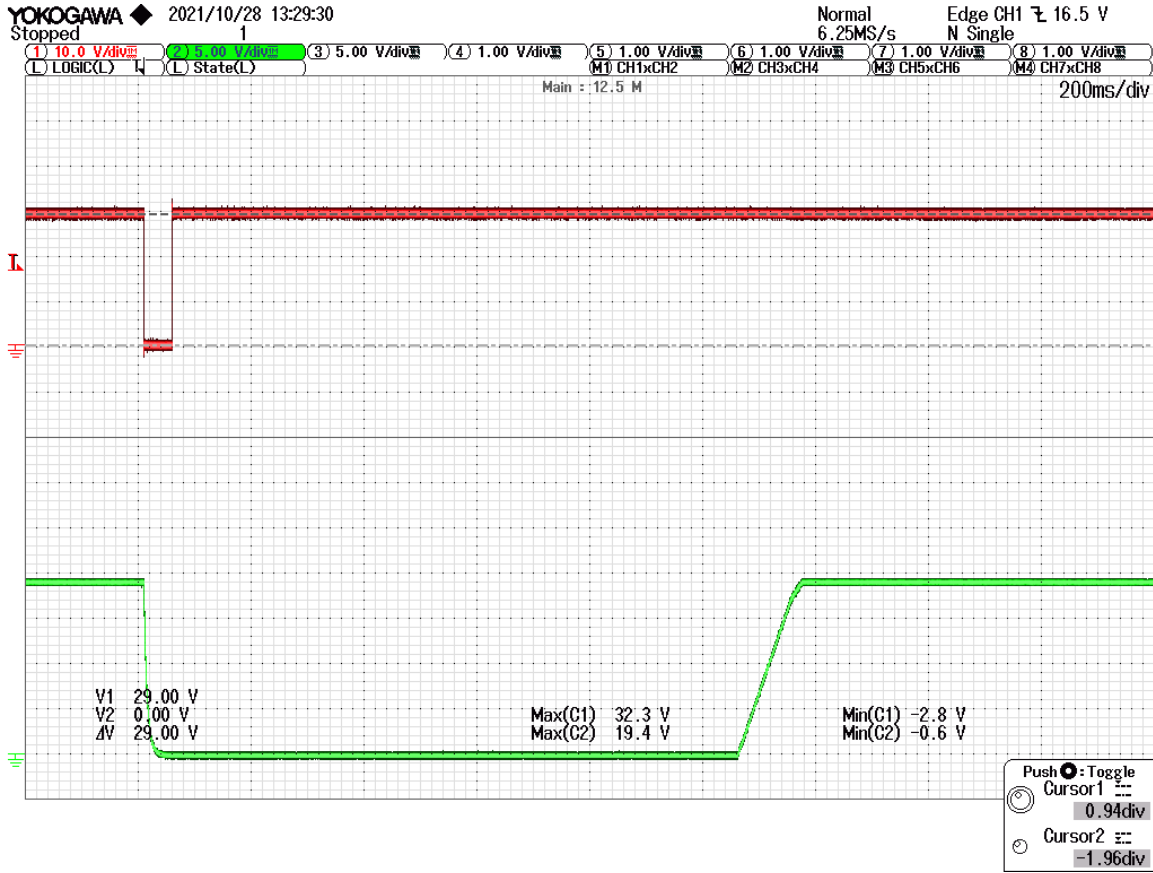


Figure F-15: Condition C, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

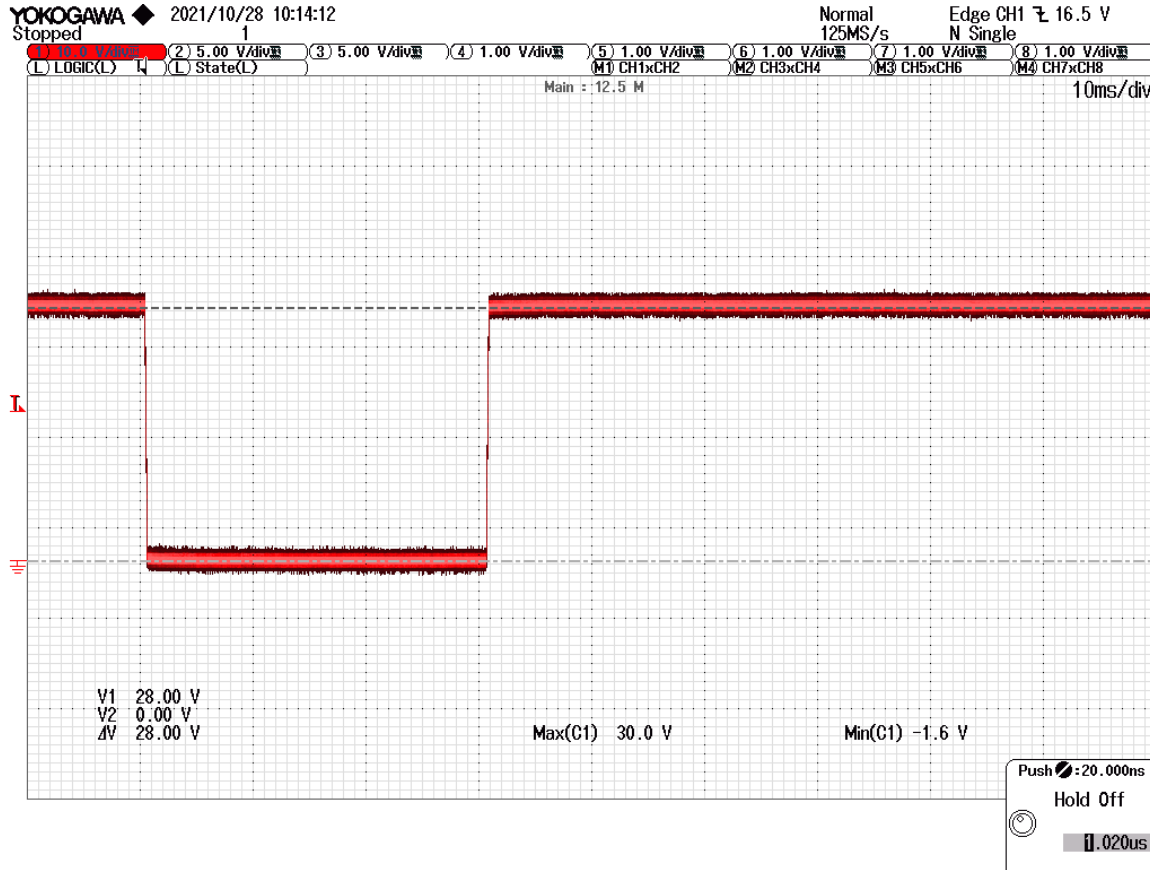


Figure F-16: Condition D, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

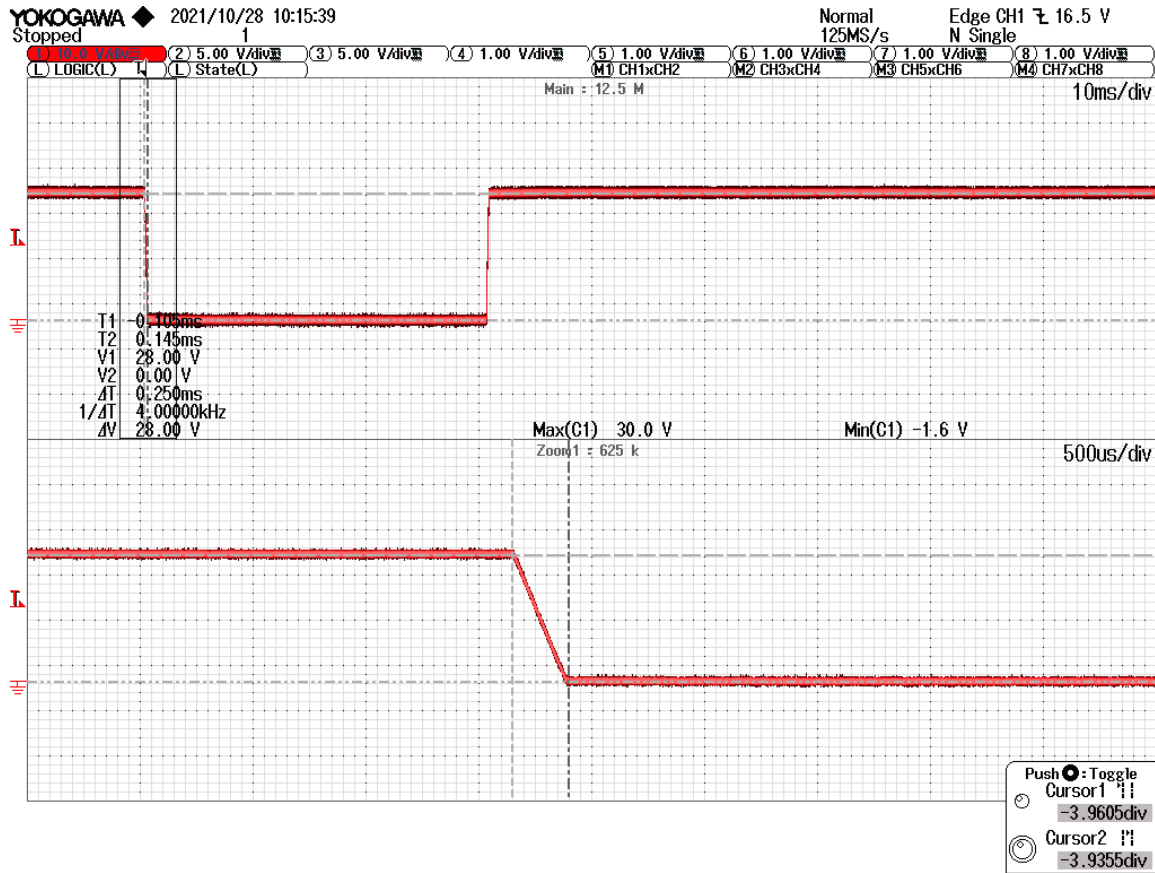


Figure F-17: Condition D, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

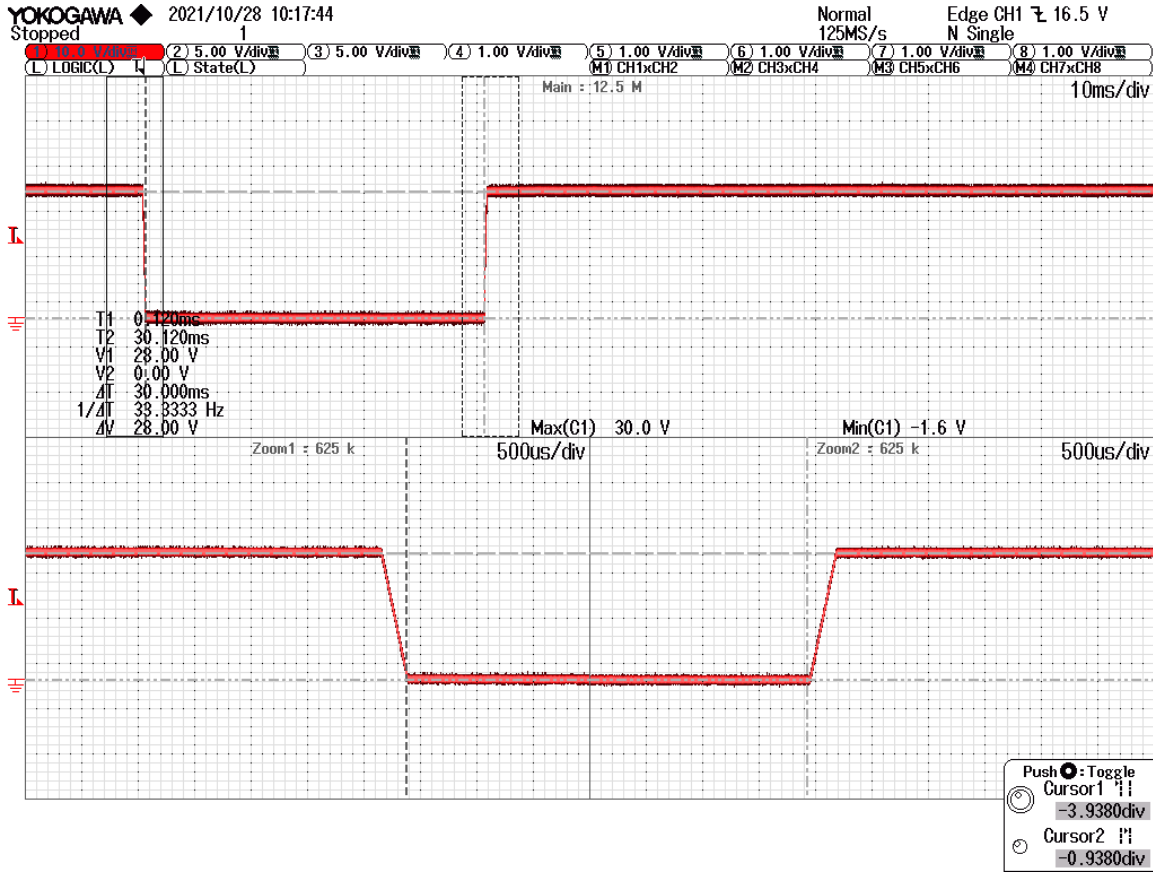


Figure F-18: Condition D, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

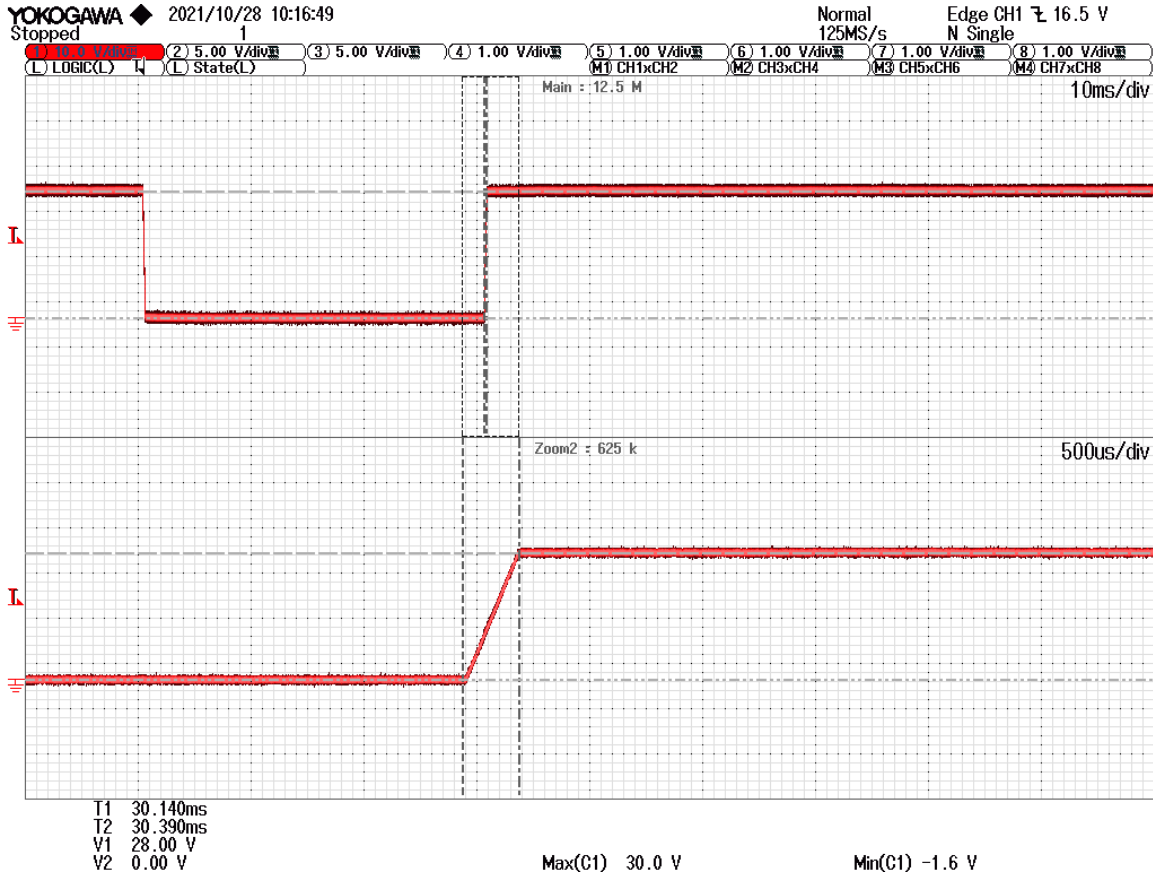


Figure F-19: Condition D, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Figure F-20: Condition D, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

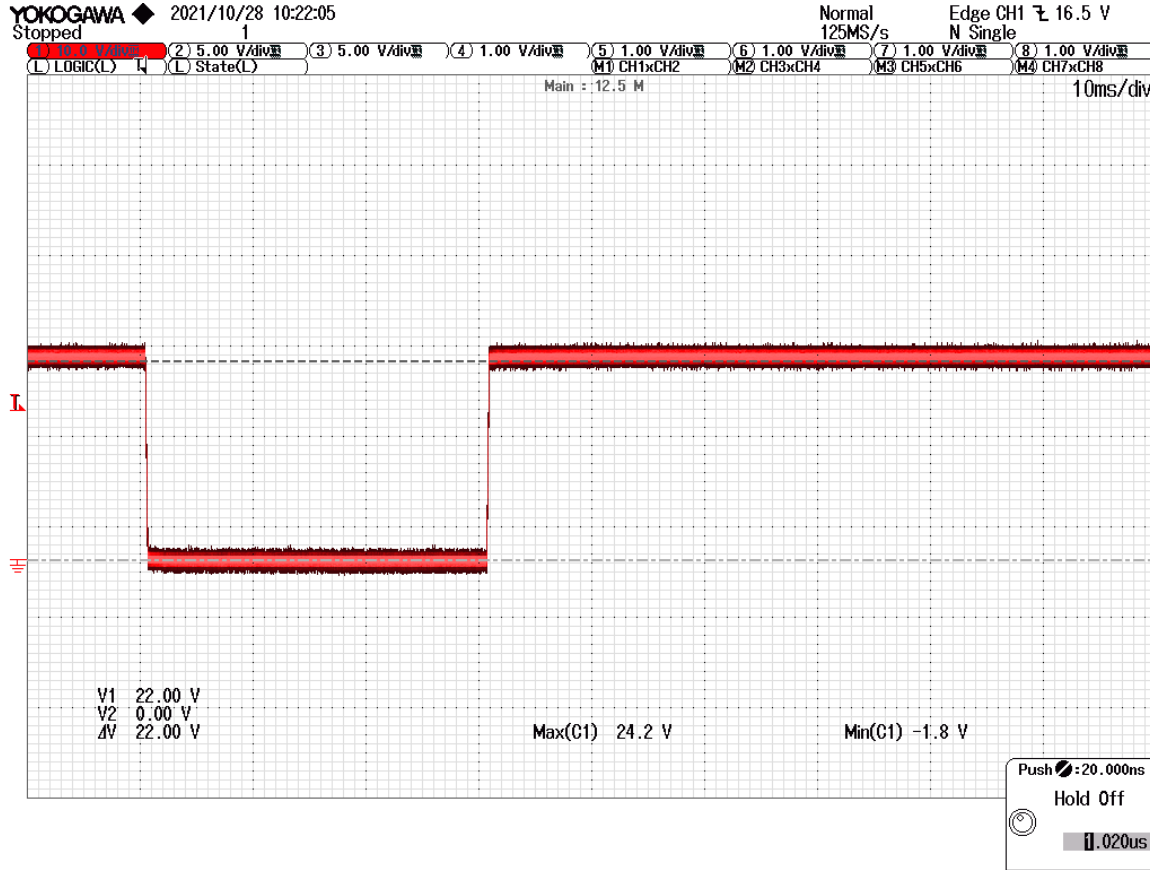


Figure F-21: Condition E, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

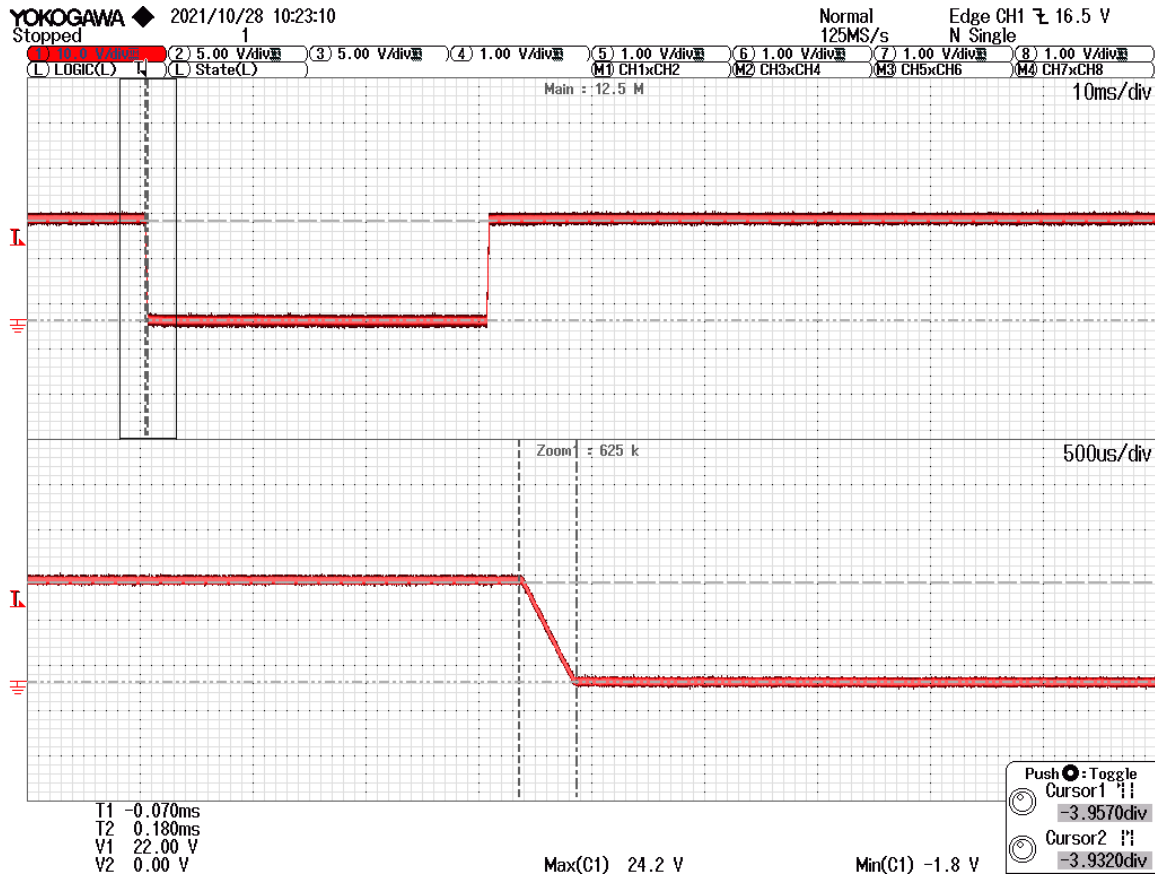


Figure F-22: Condition E, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

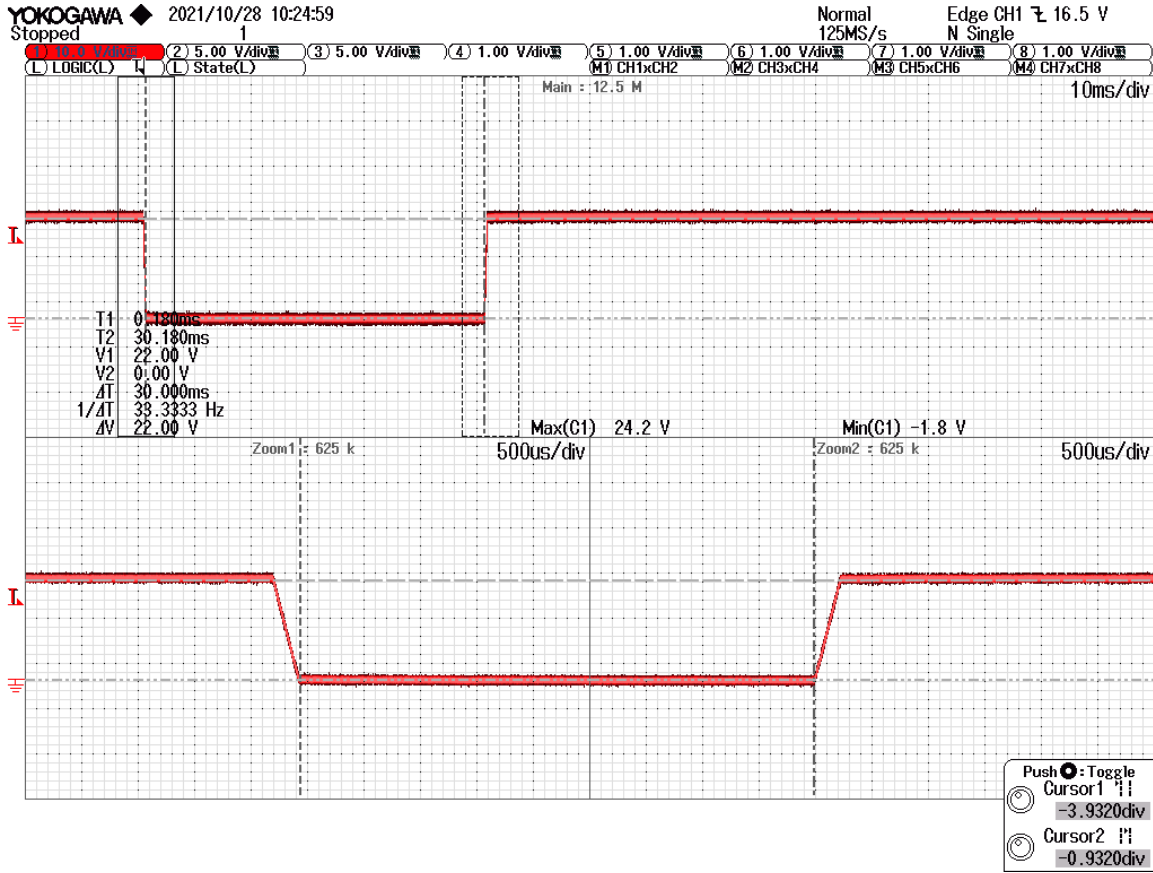


Figure F-23: Condition E, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

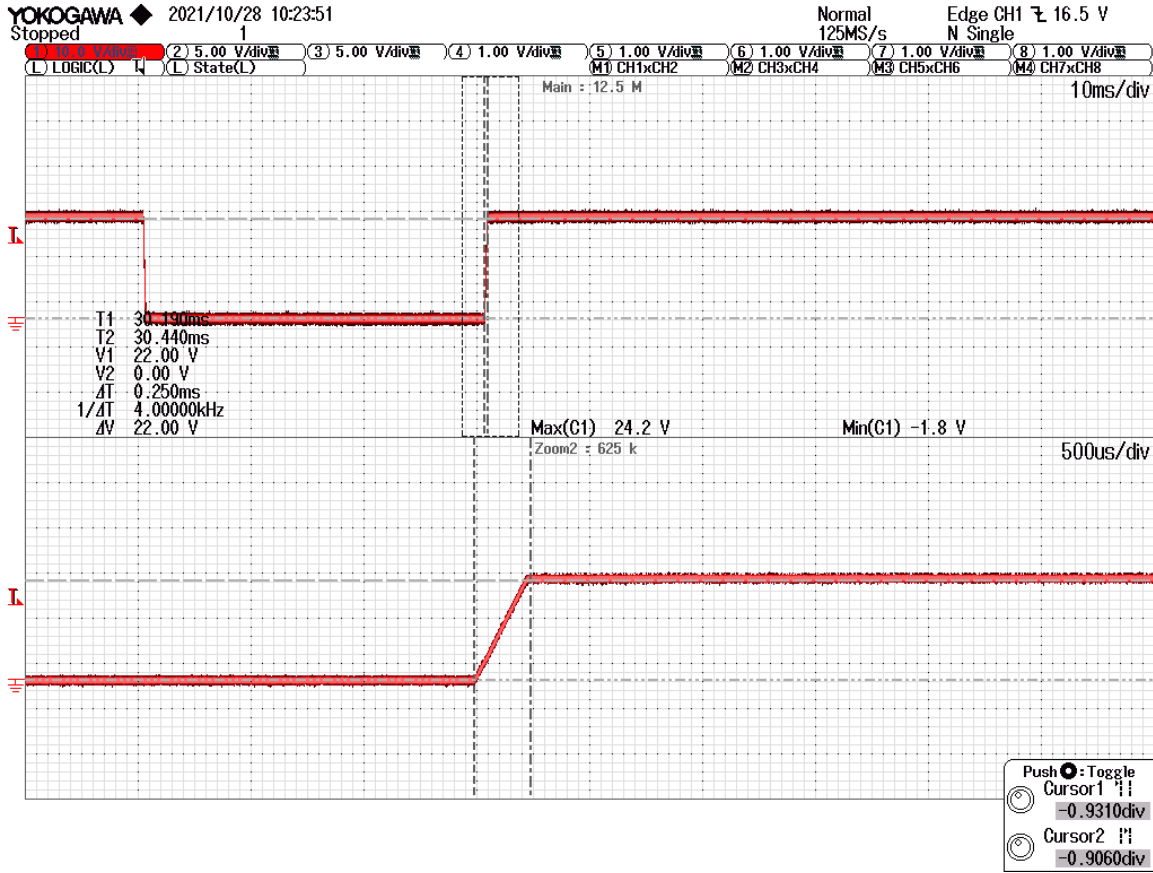


Figure F-24: Condition E, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

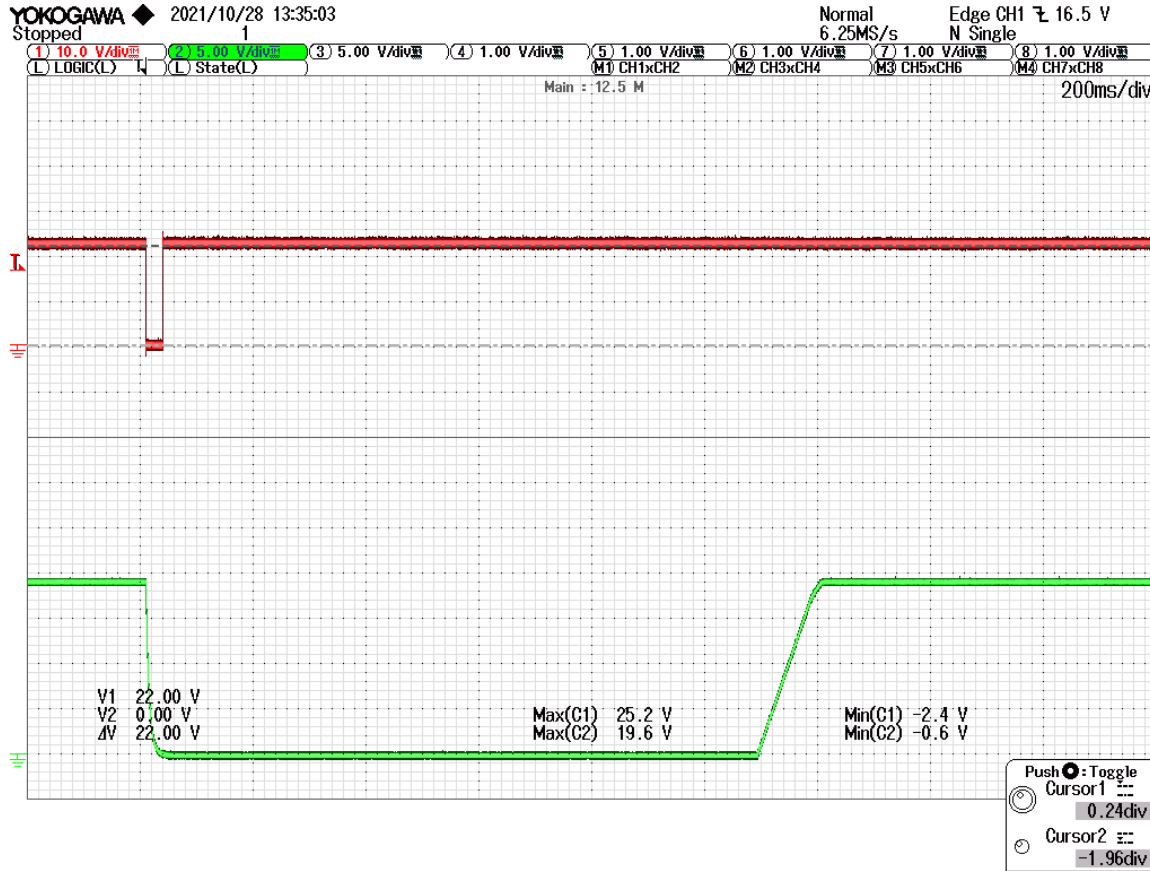


Figure F-25: Condition E, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

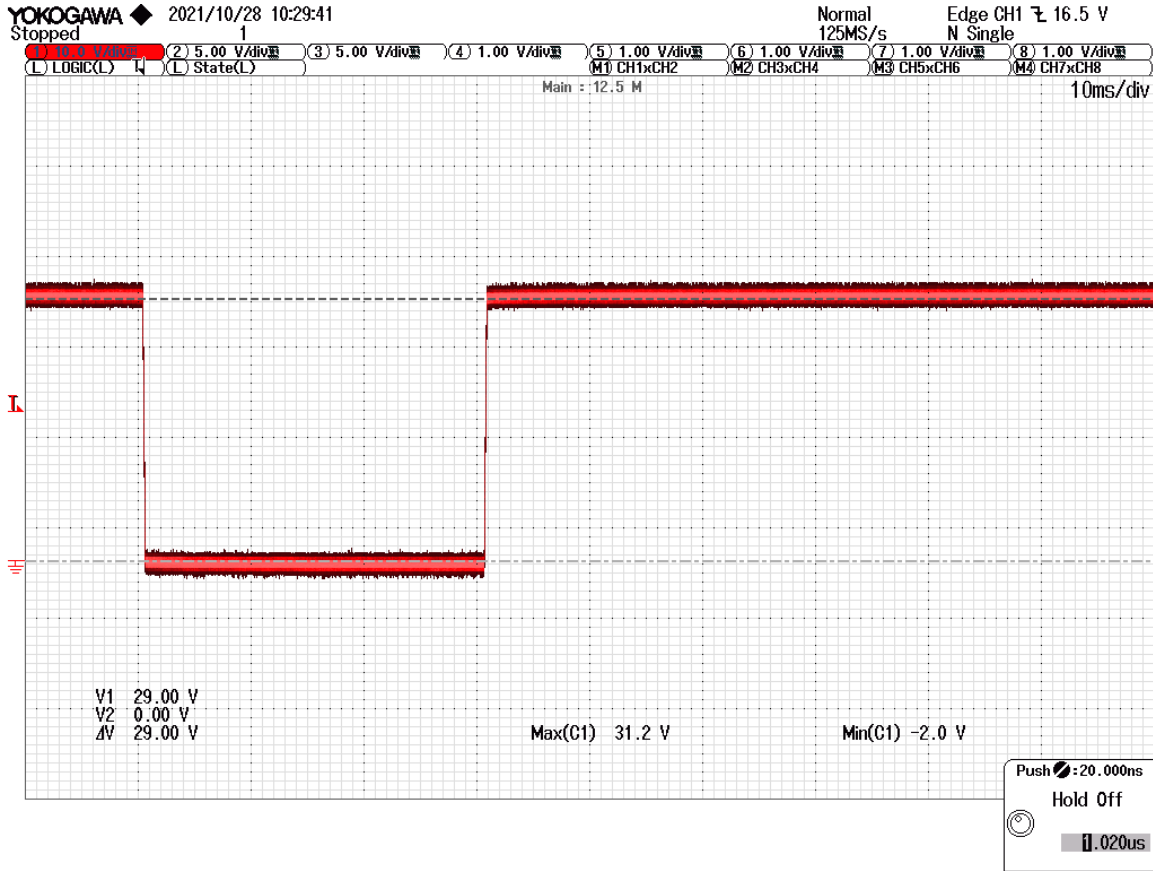


Figure F-26: Condition F, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

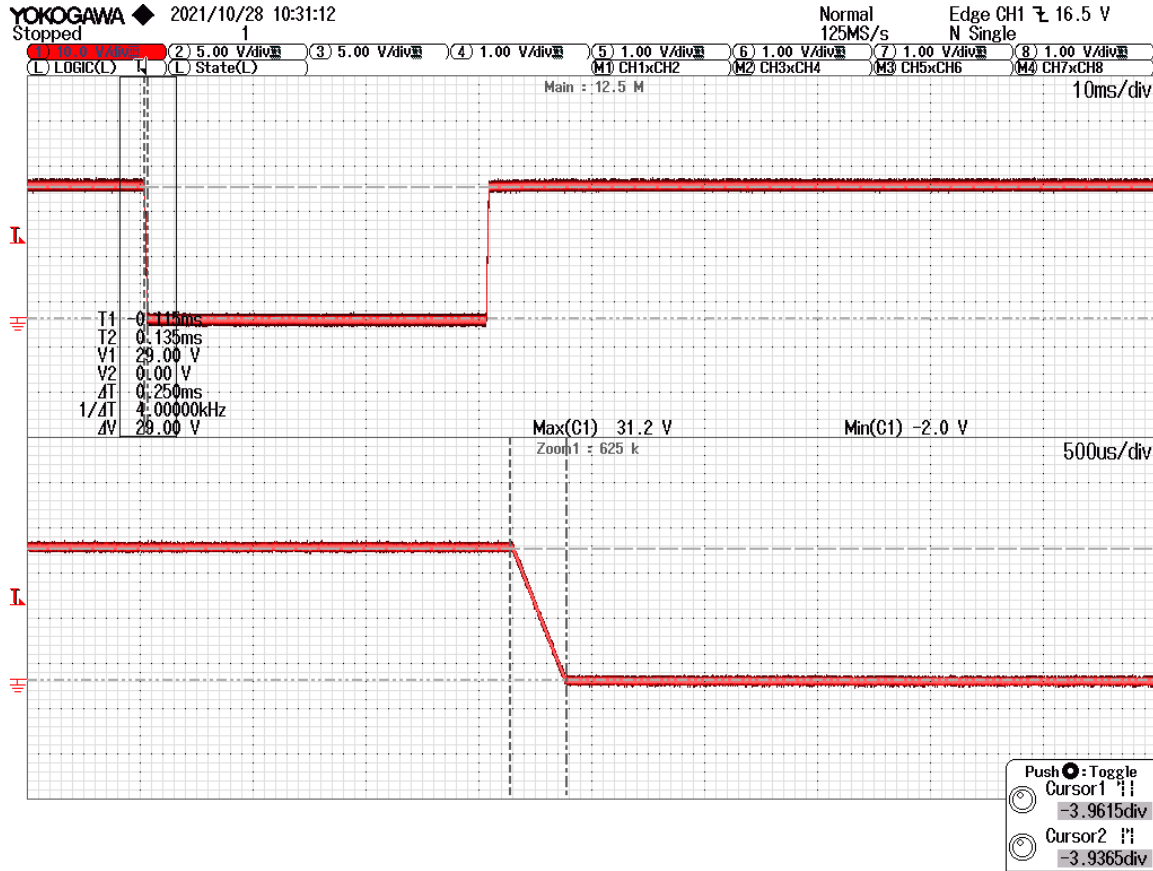


Figure F-27: Condition F, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

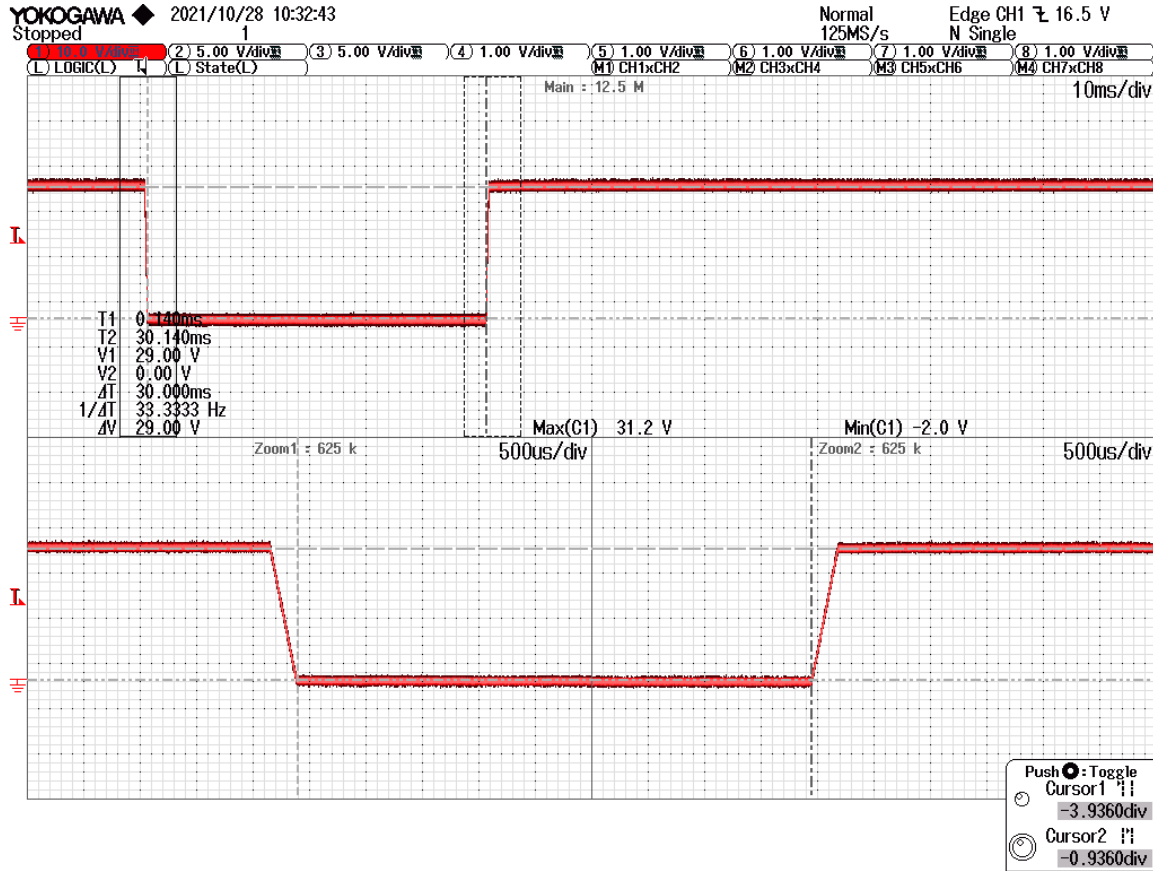


Figure F-28: Condition F, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

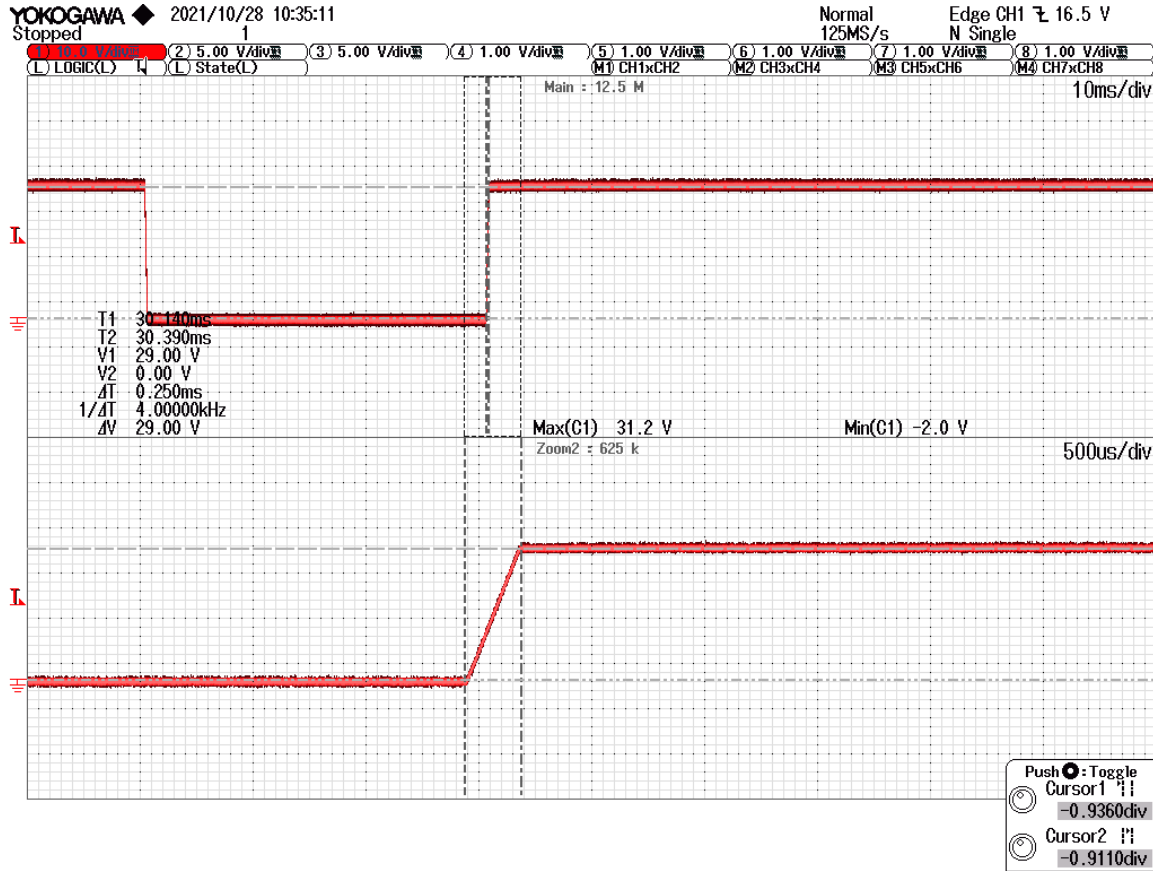


Figure F-29: Condition F, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Figure F-30: Condition F, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

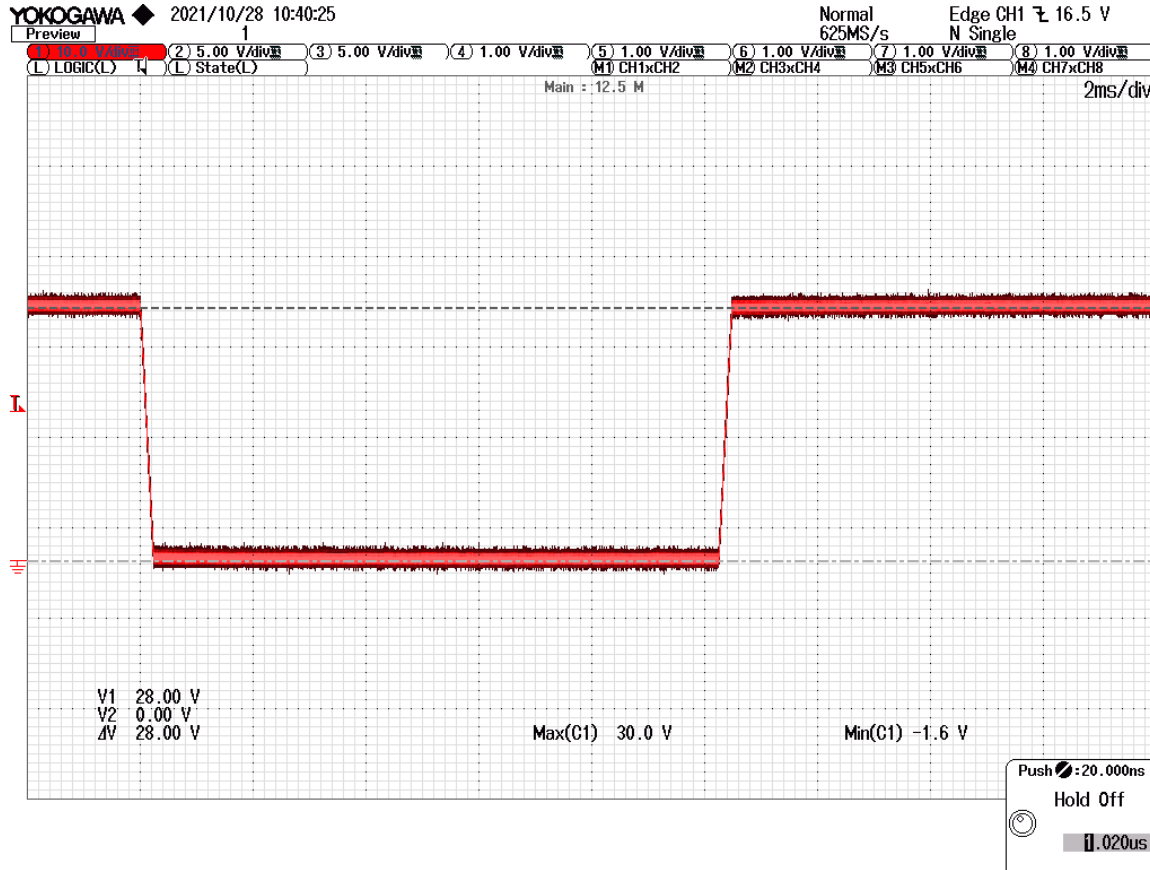


Figure F-31: Condition G, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

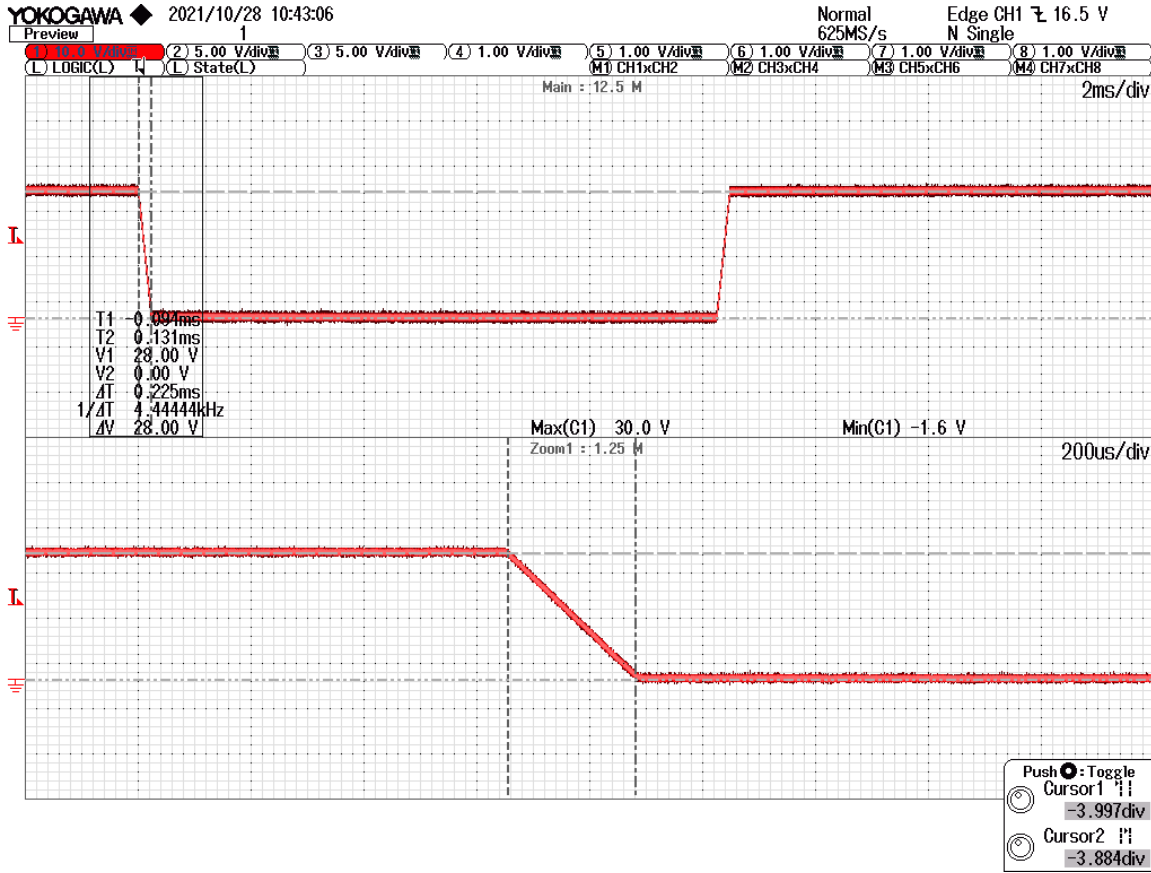


Figure F-32: Condition G, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

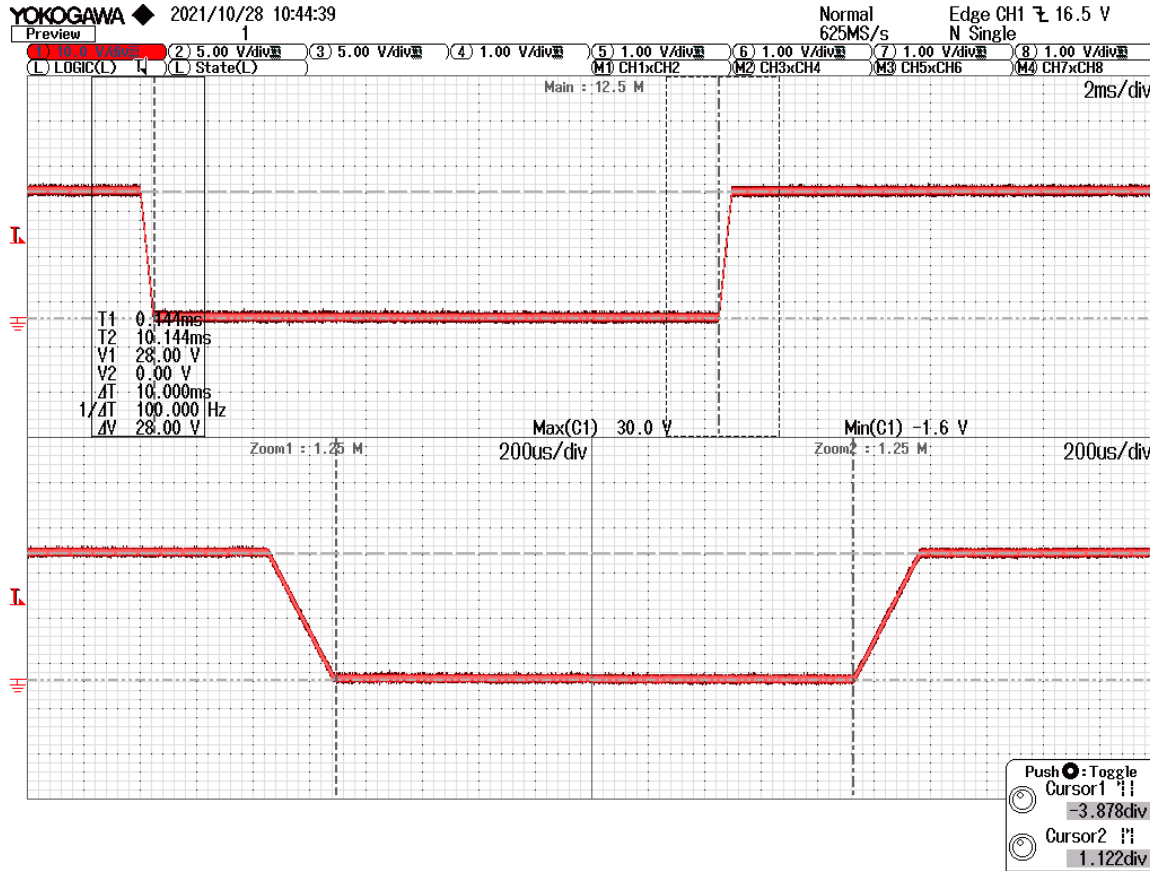


Figure F-33: Condition G, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

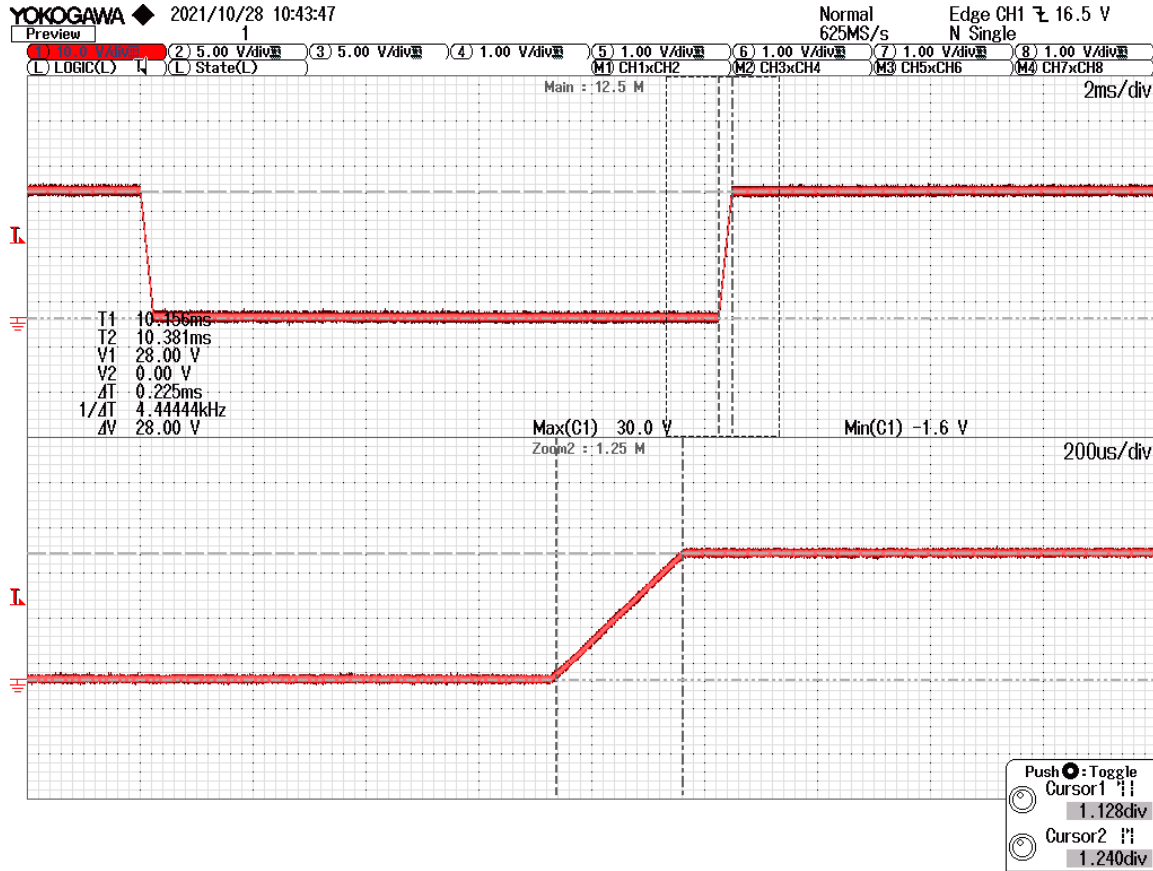


Figure F-34: Condition G, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

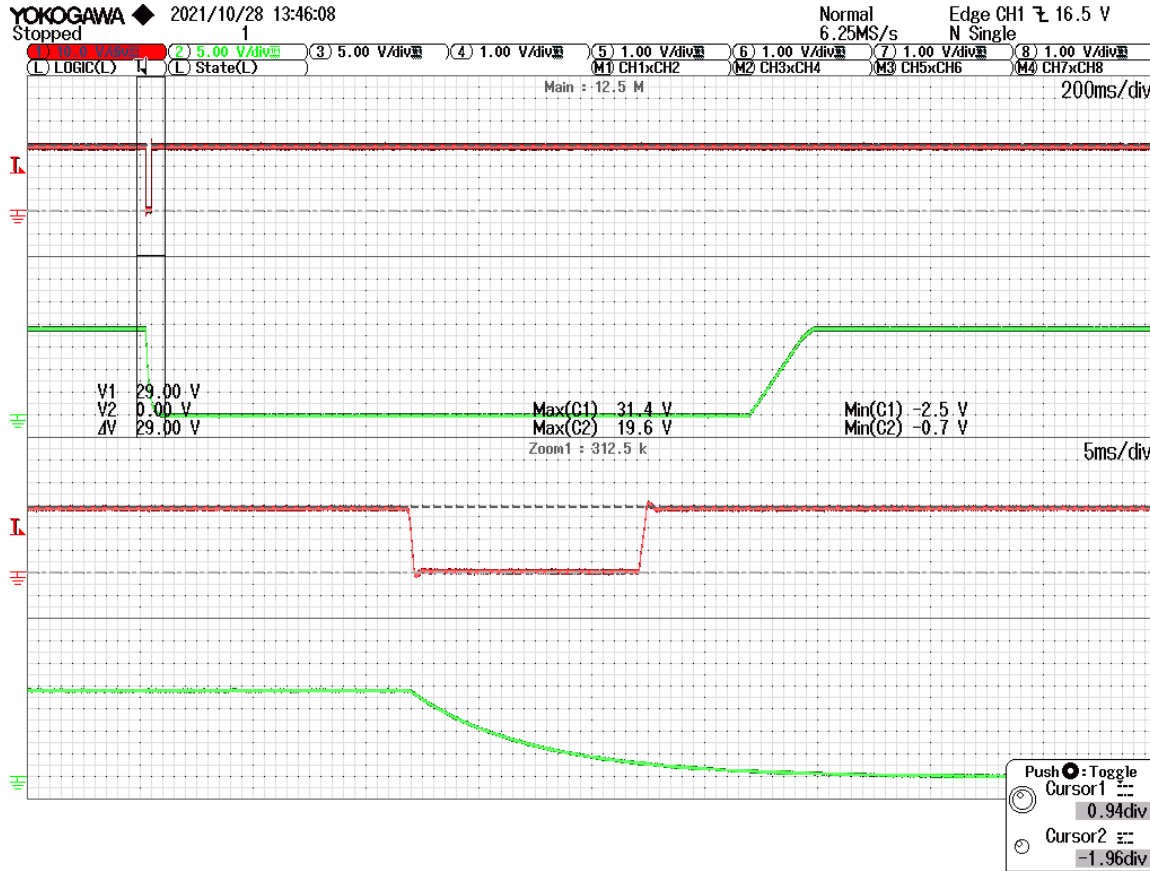


Figure F-35: Condition G, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

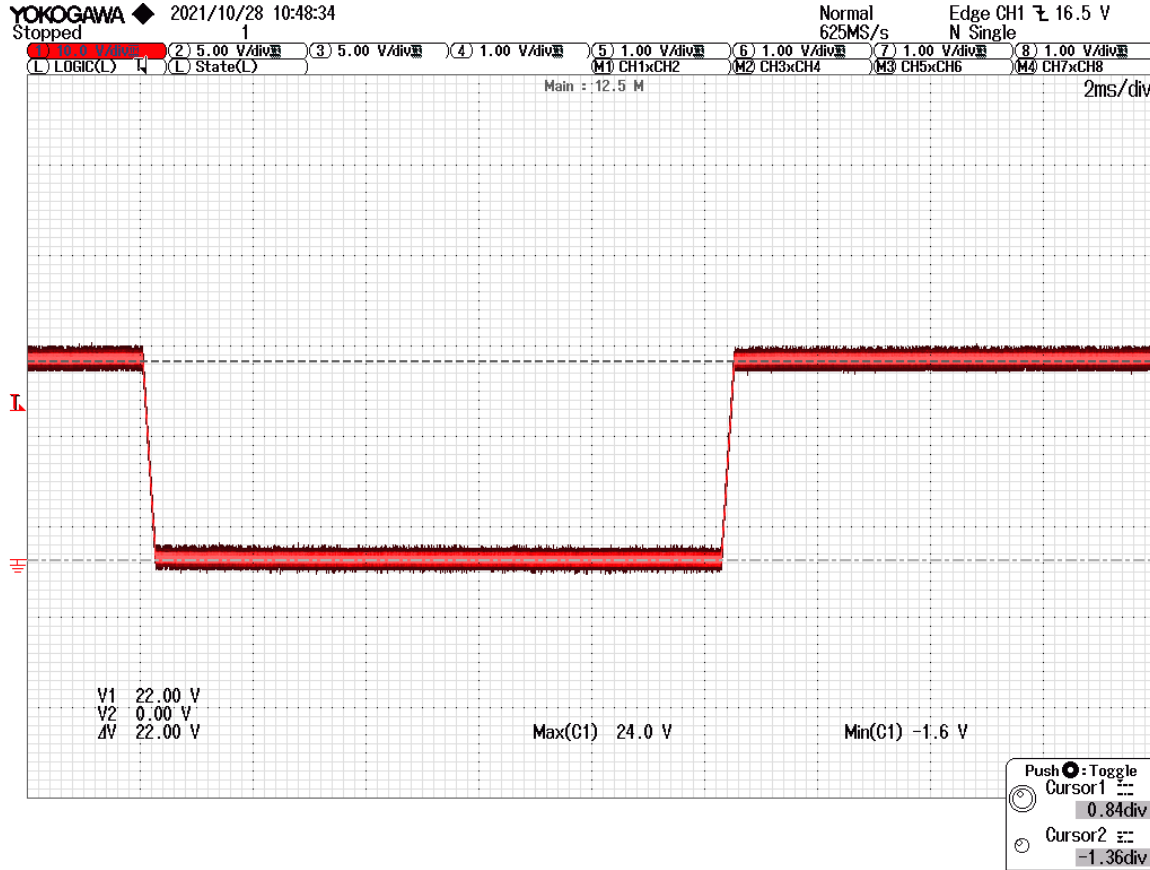


Figure F-36: Condition H, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

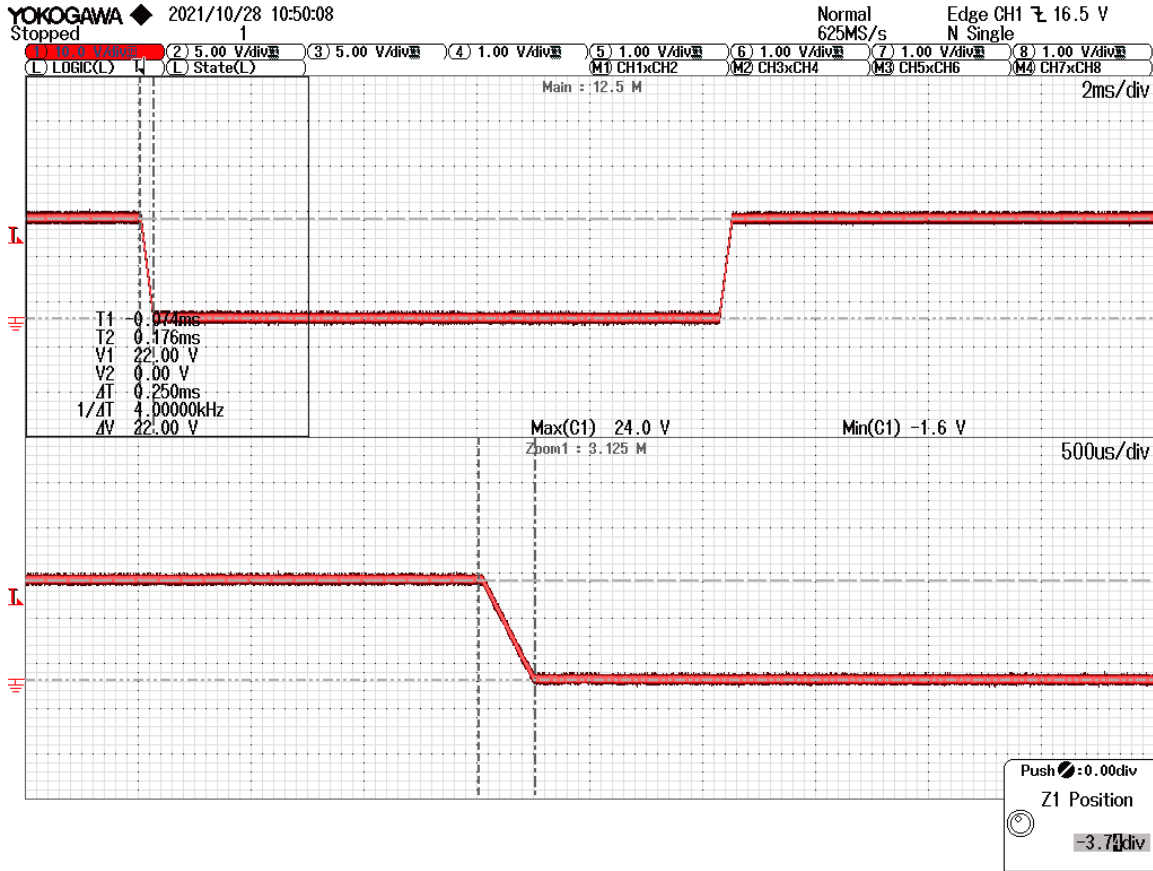


Figure F-37: Condition H, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

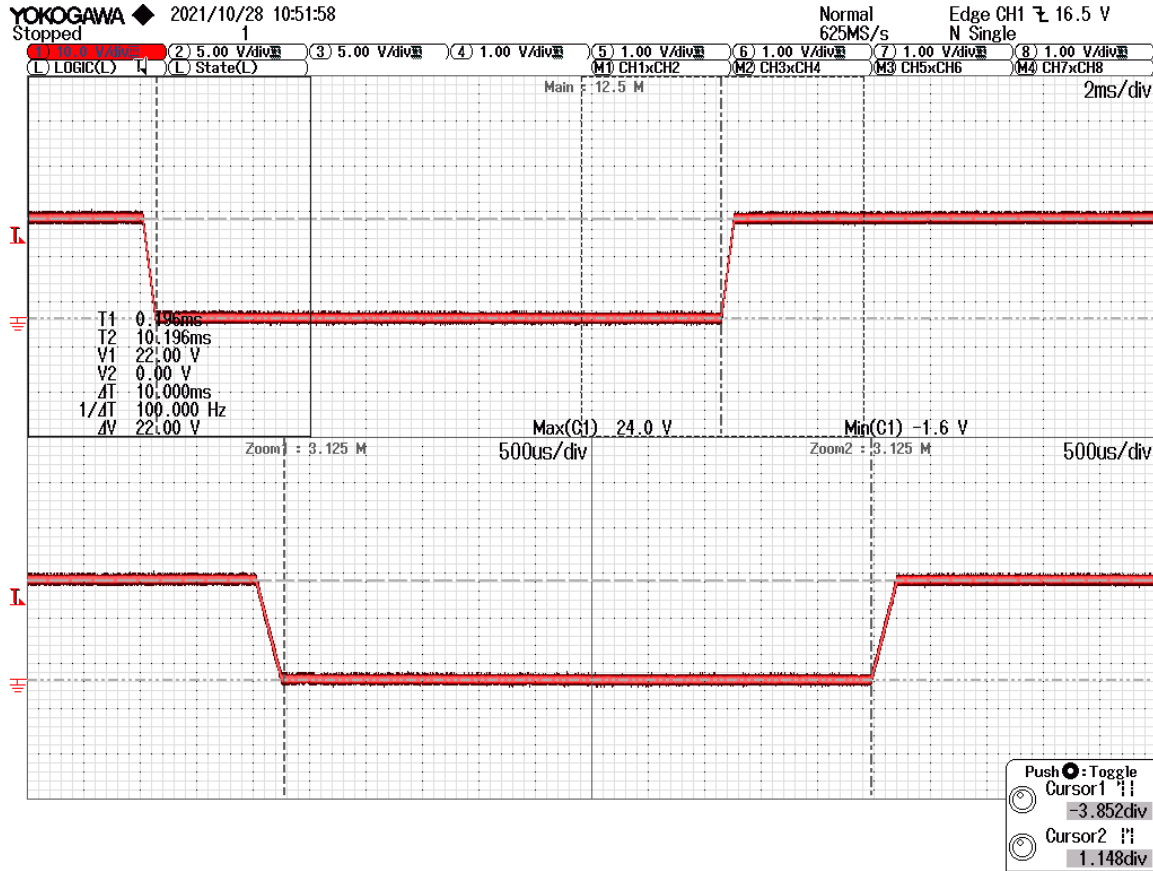
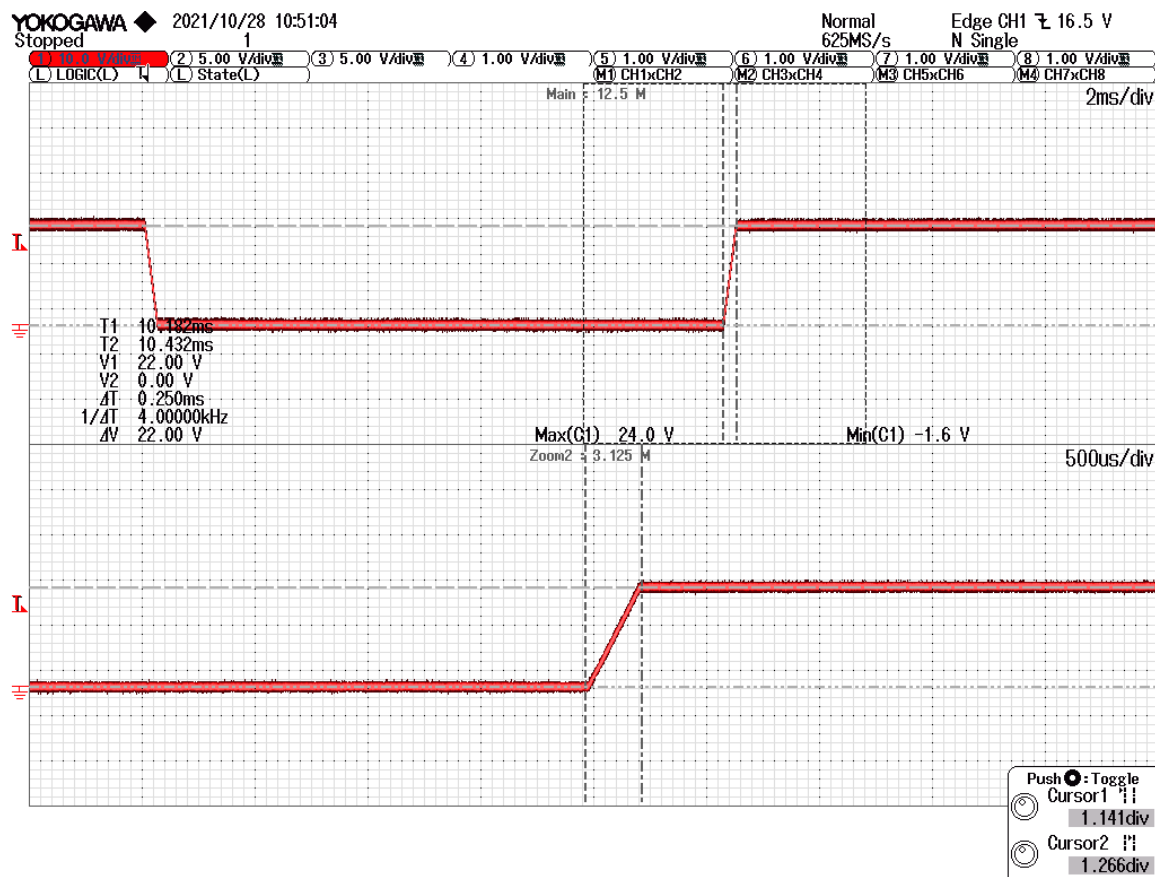


Figure F-38: Condition H, waveform verification transient duration

Channel 1 = input voltage

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

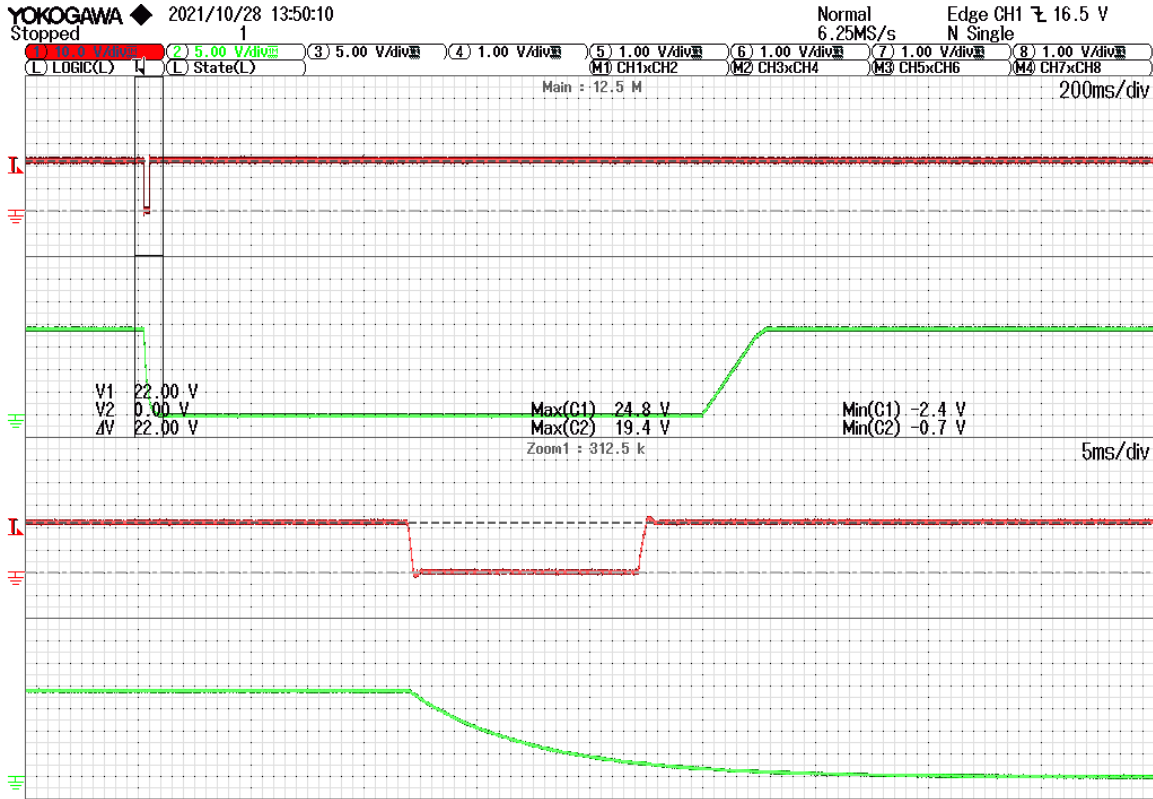


Figure F-40: Condition H, test application cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

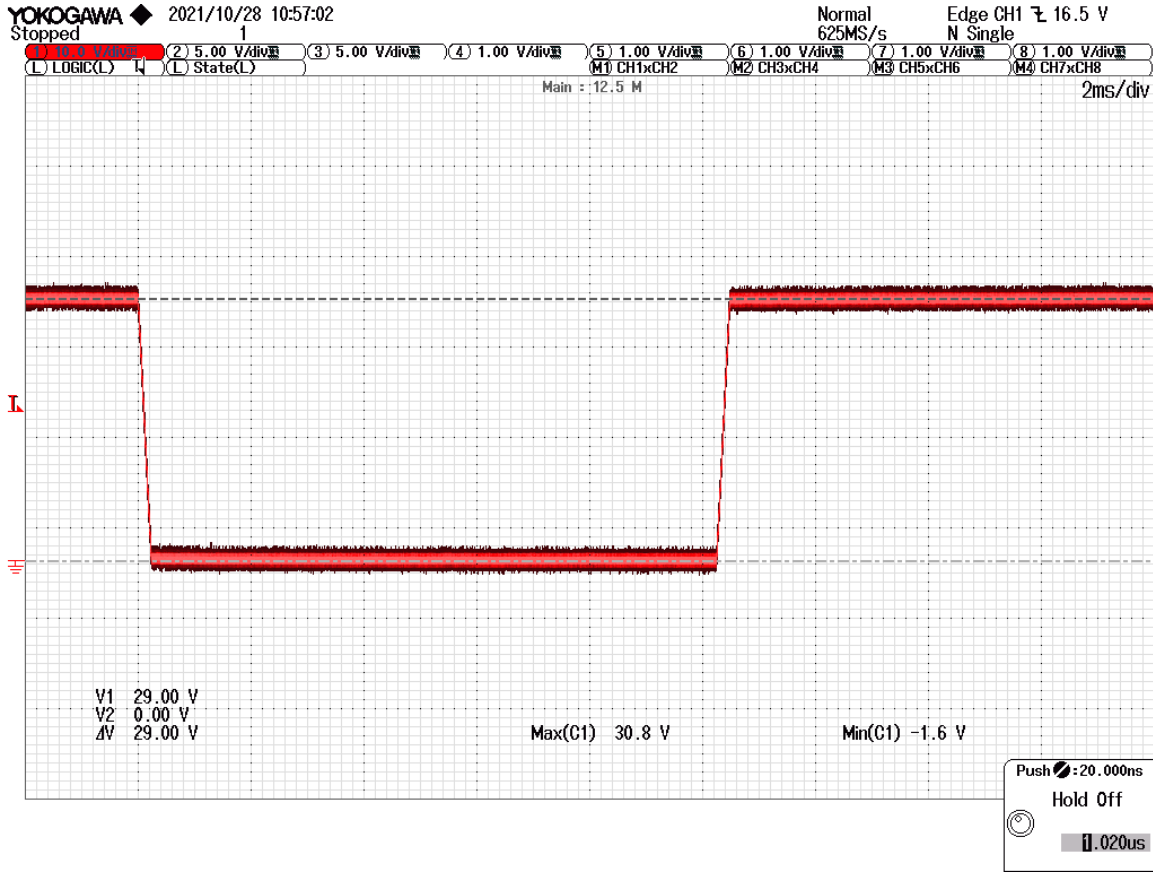


Figure F-41: Condition I, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

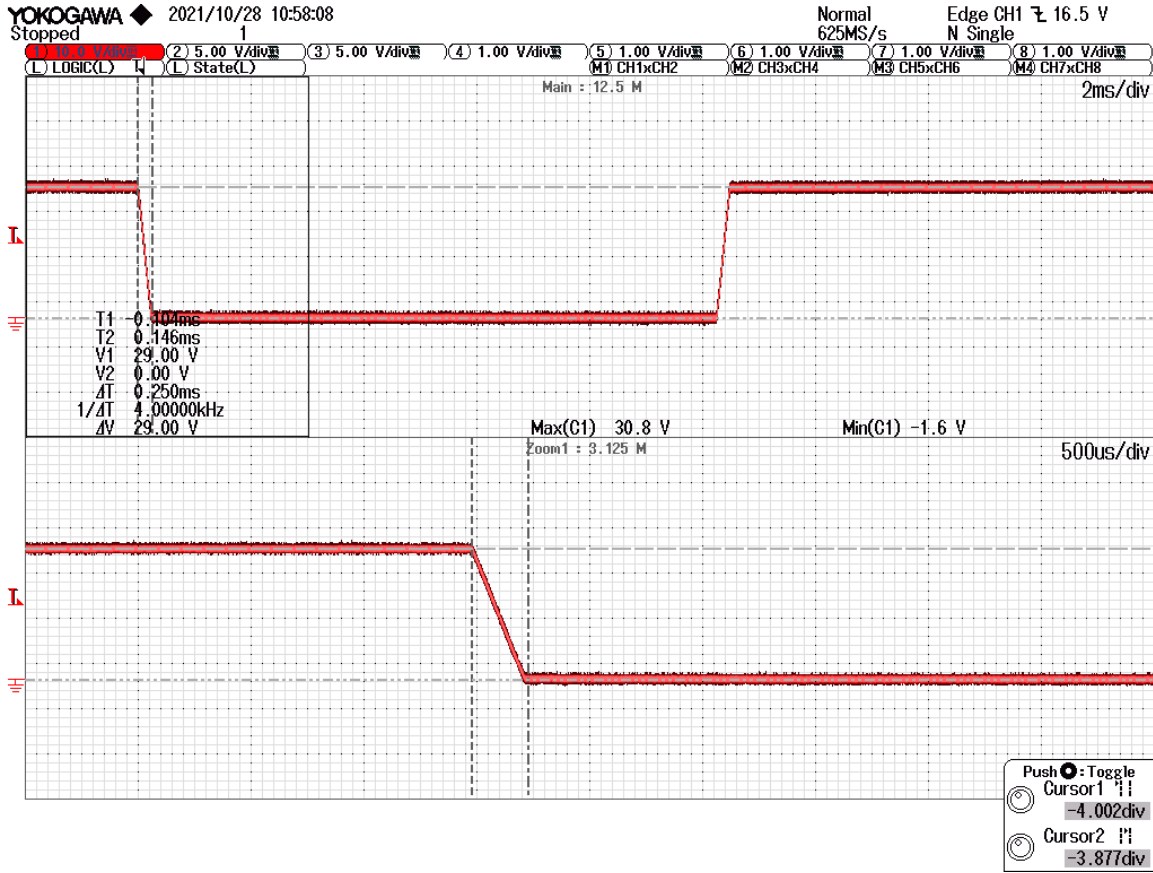


Figure F-42: Condition I, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

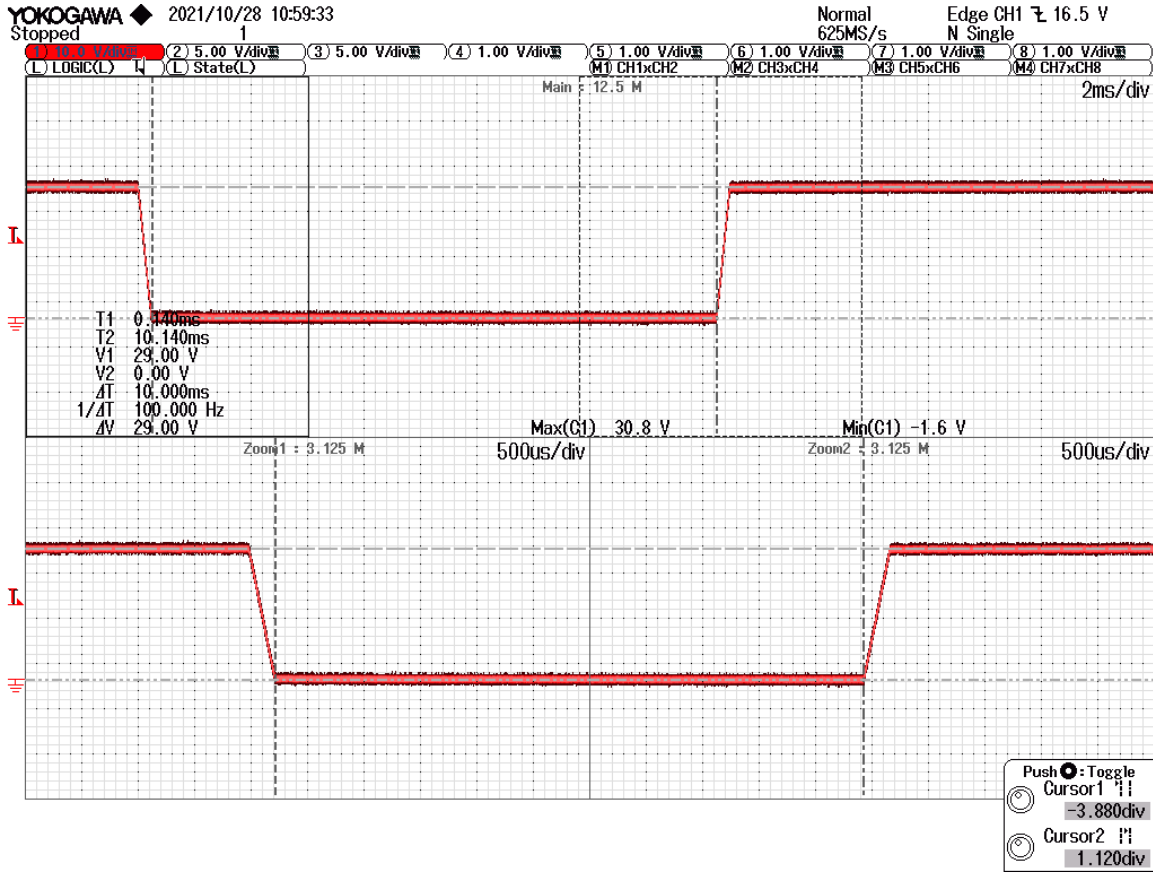


Figure F-43: Condition I, waveform verification transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

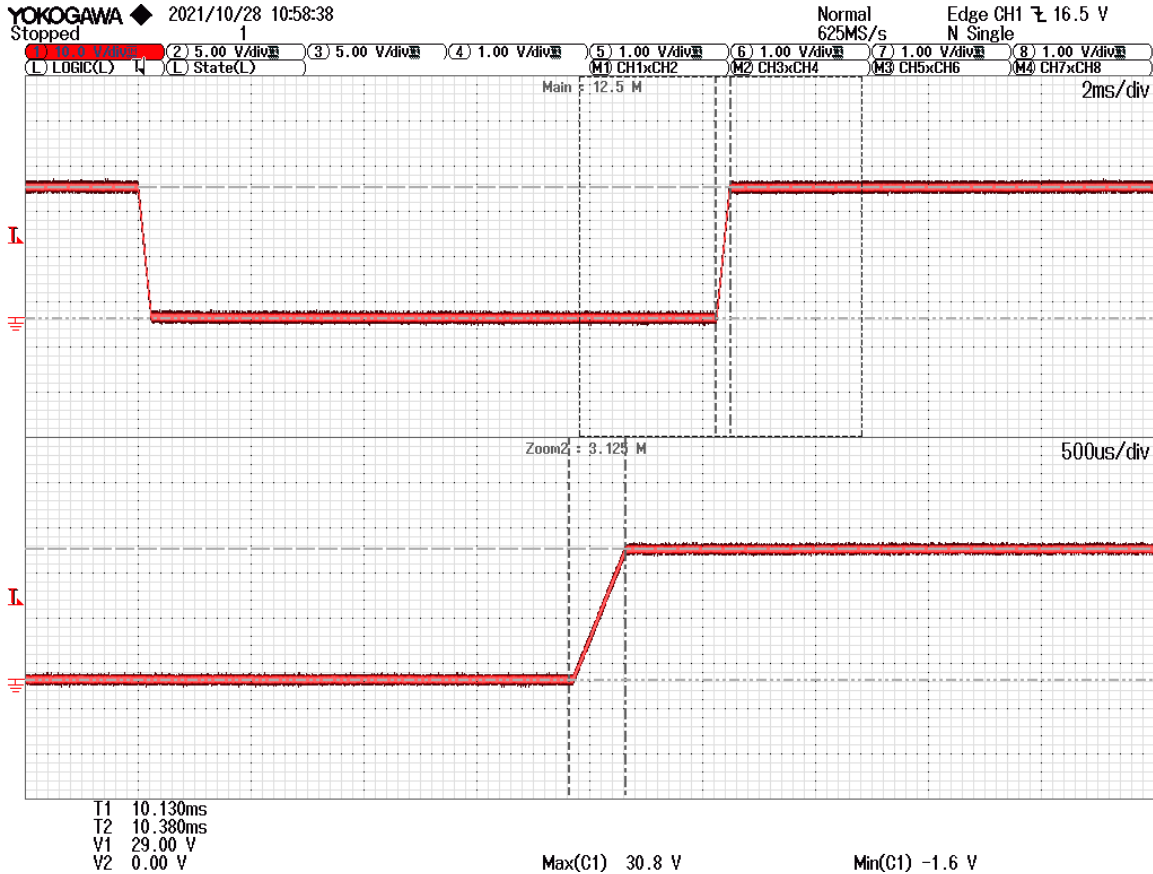


Figure F-44: Condition I, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

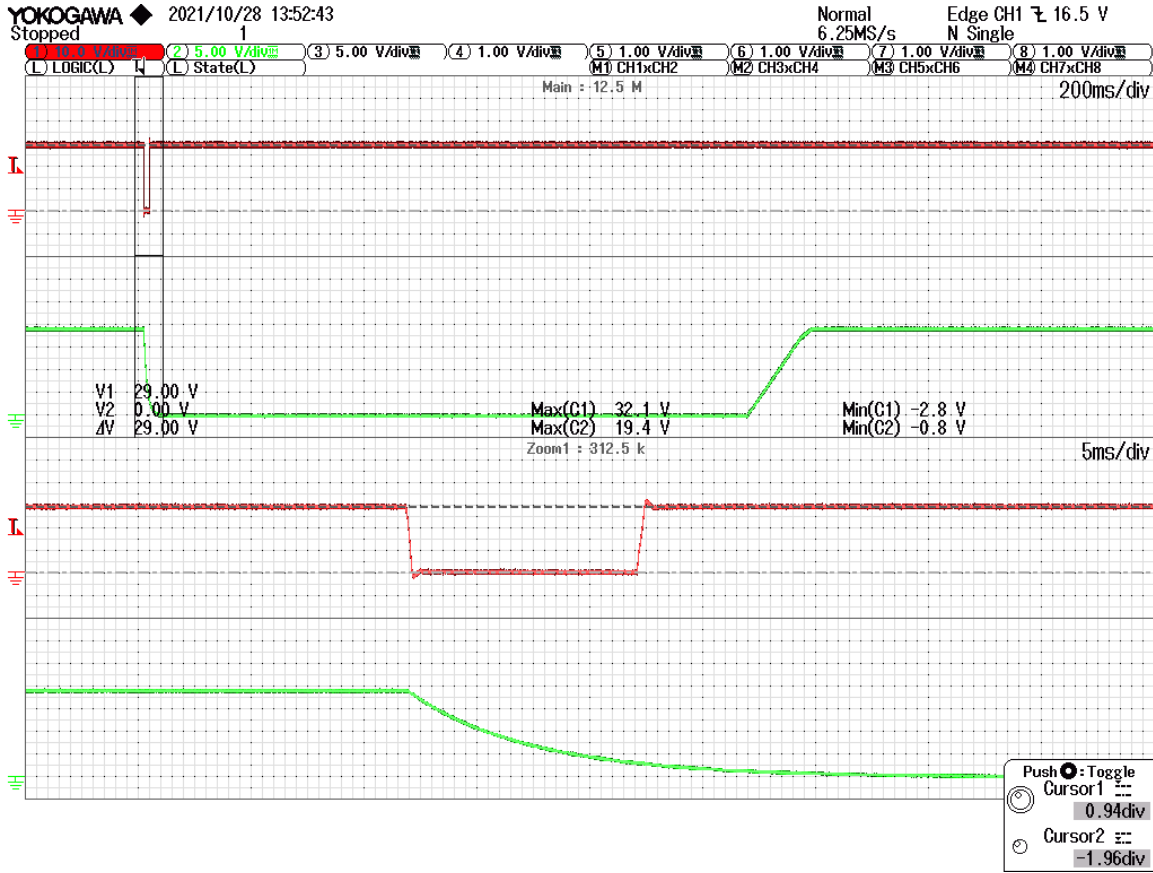


Figure F-45: Condition I, test application with cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

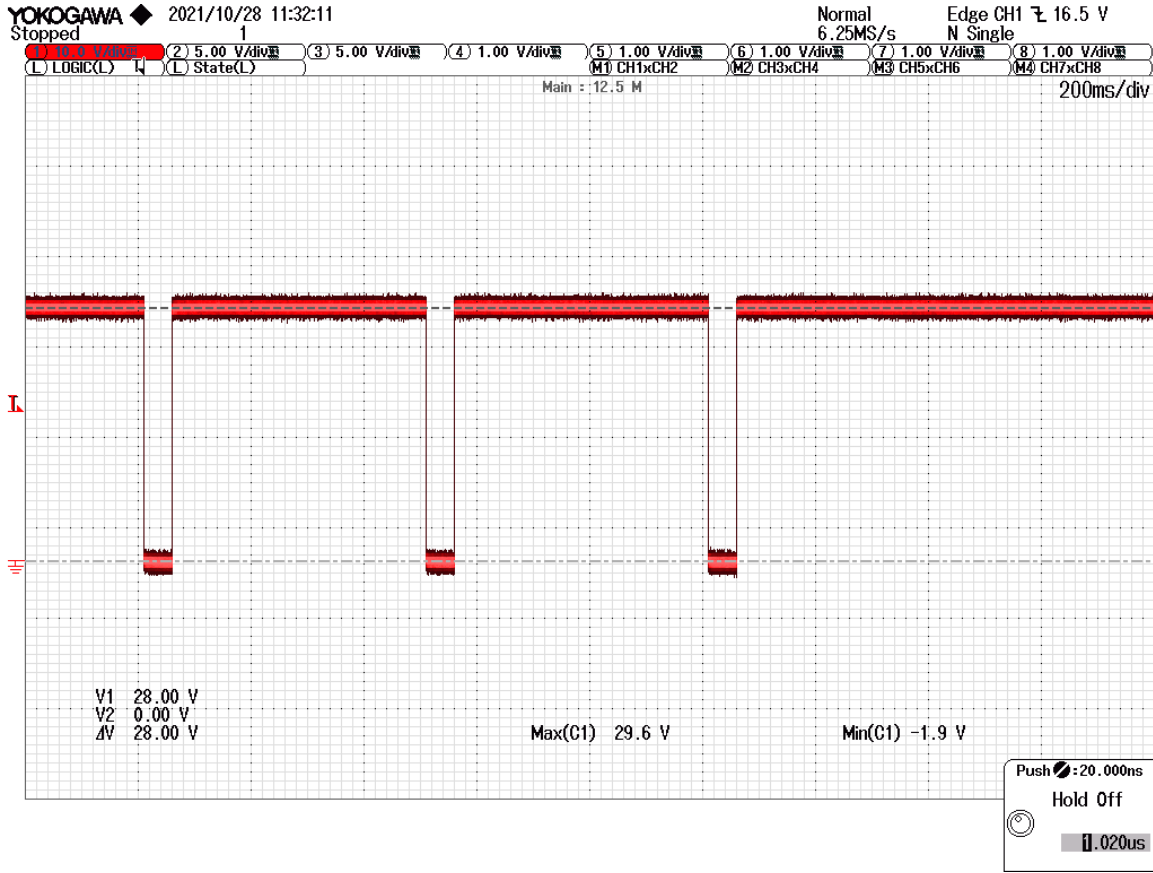


Figure F-46: Condition J, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

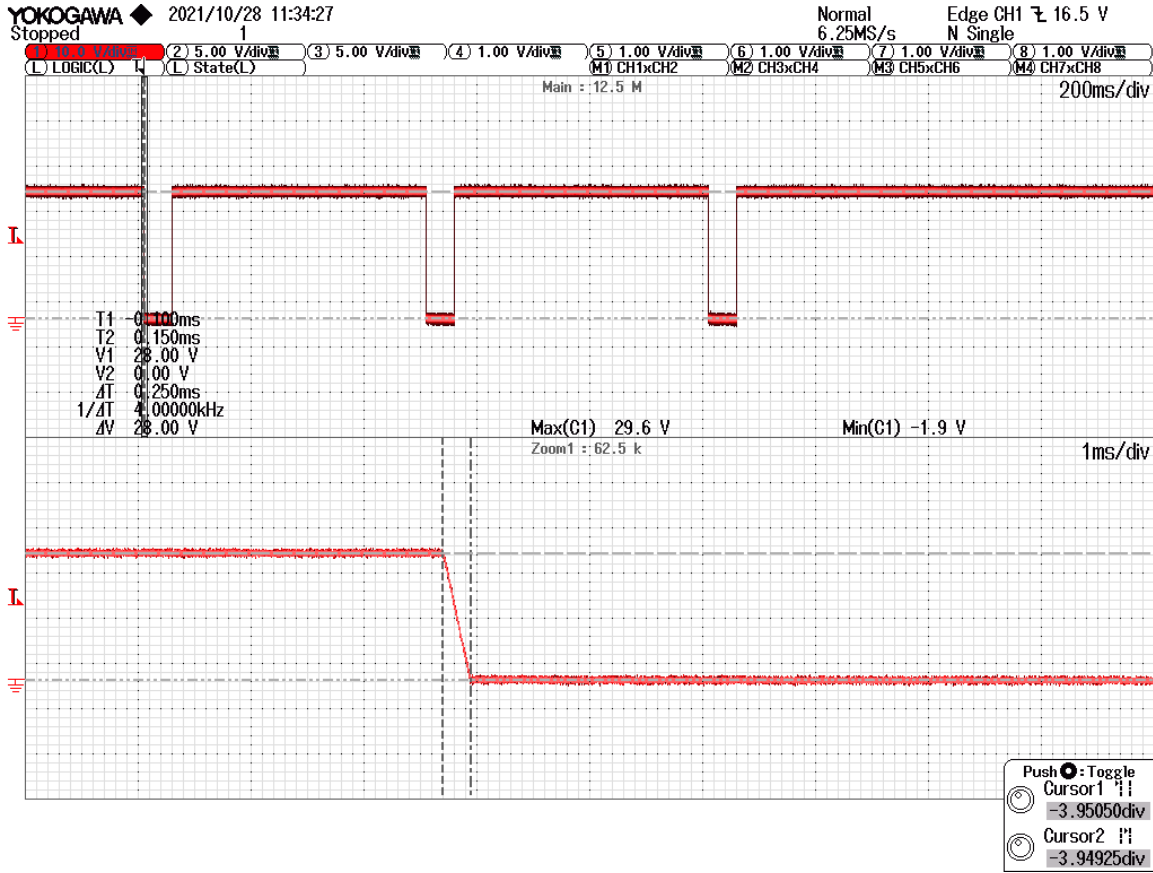


Figure F-47: Condition J, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

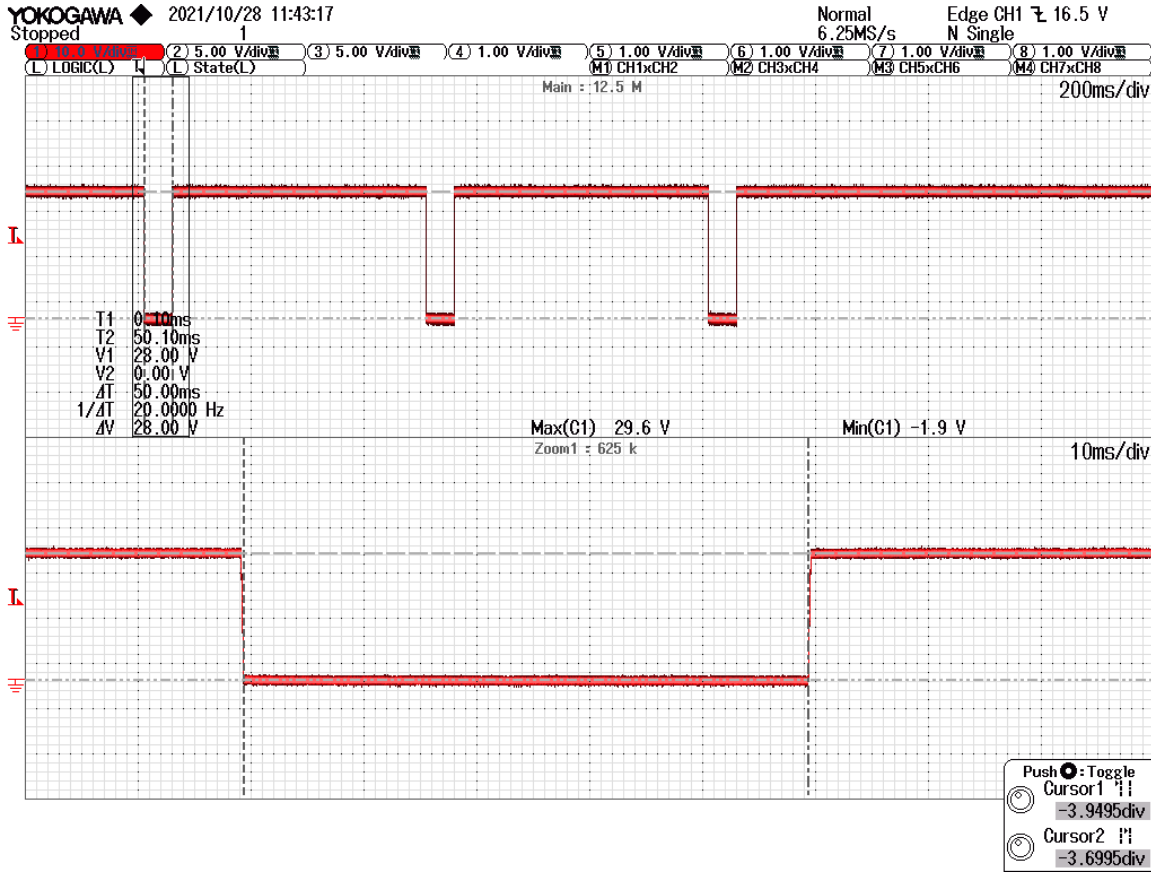


Figure F-48: Condition J, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

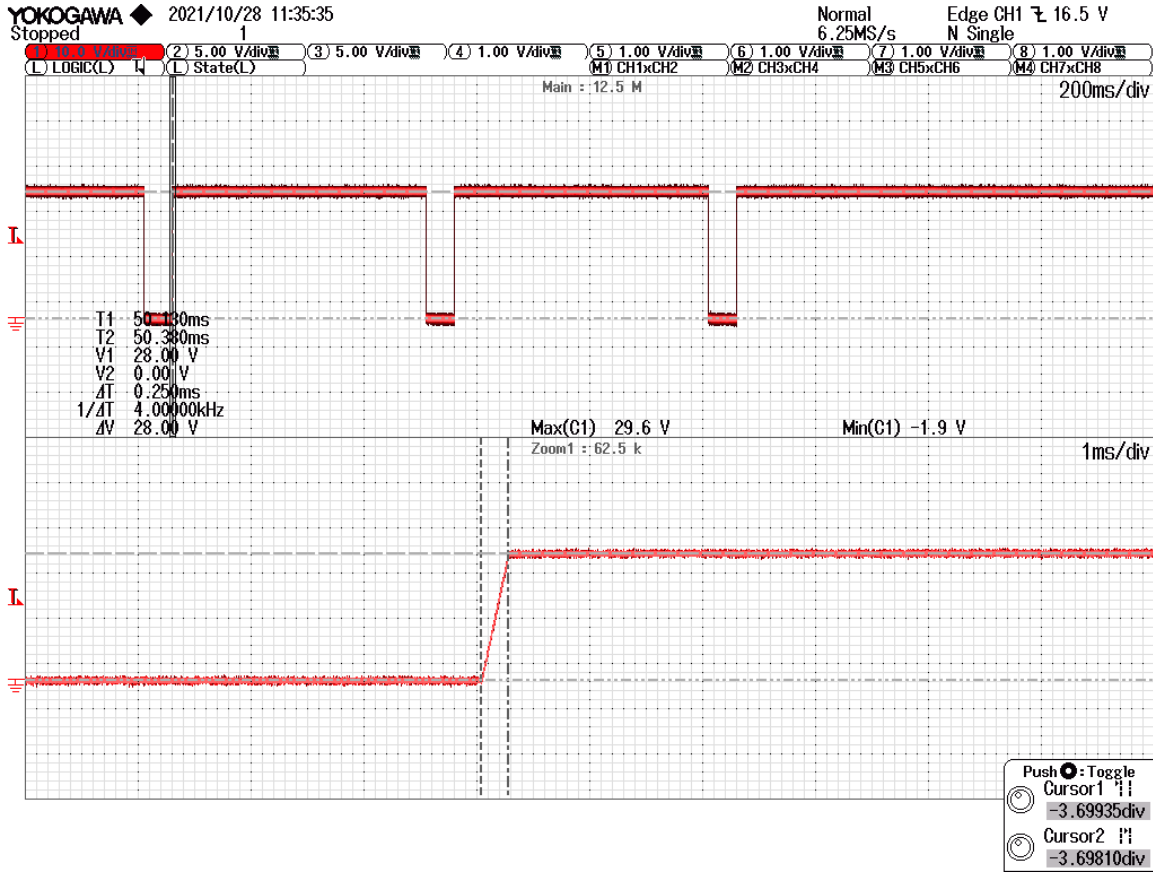


Figure F-49: Condition J, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

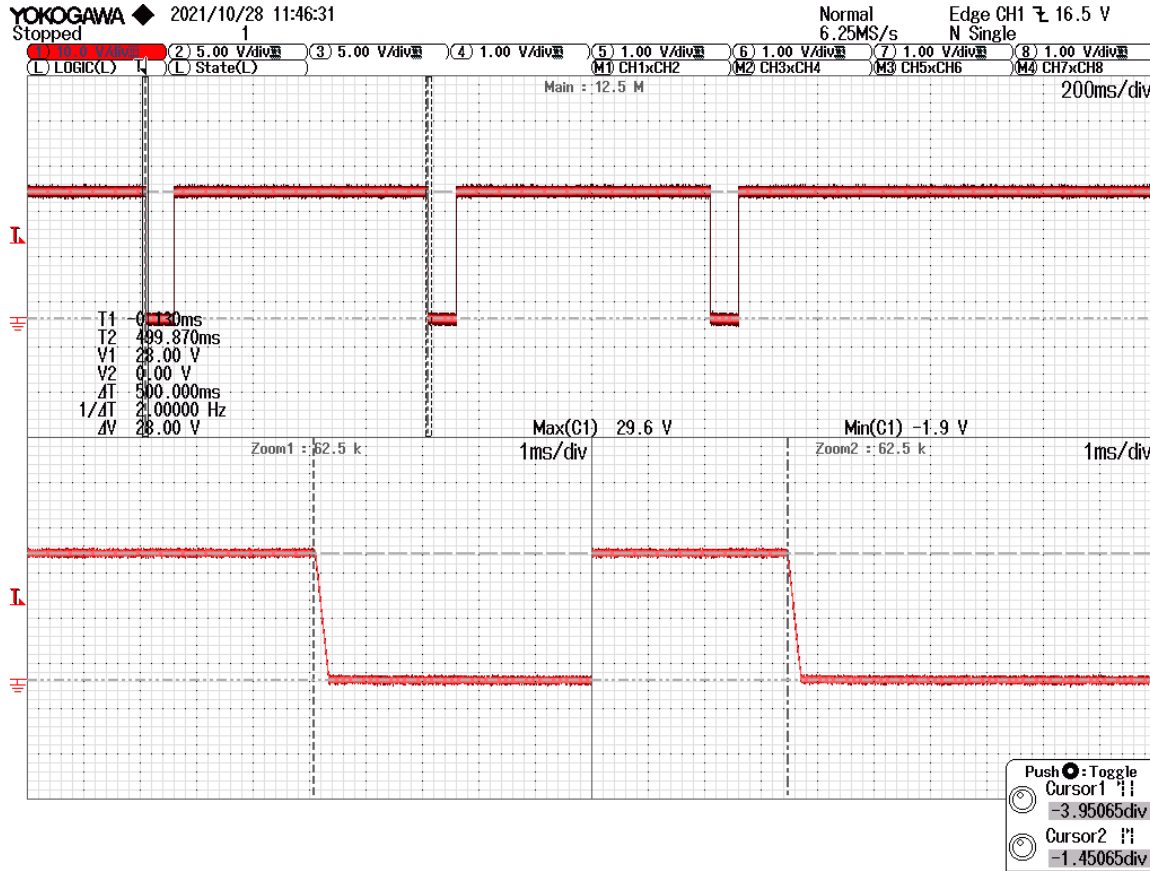


Figure F-50: Condition J, waveform verification, first transient to second transient delay time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

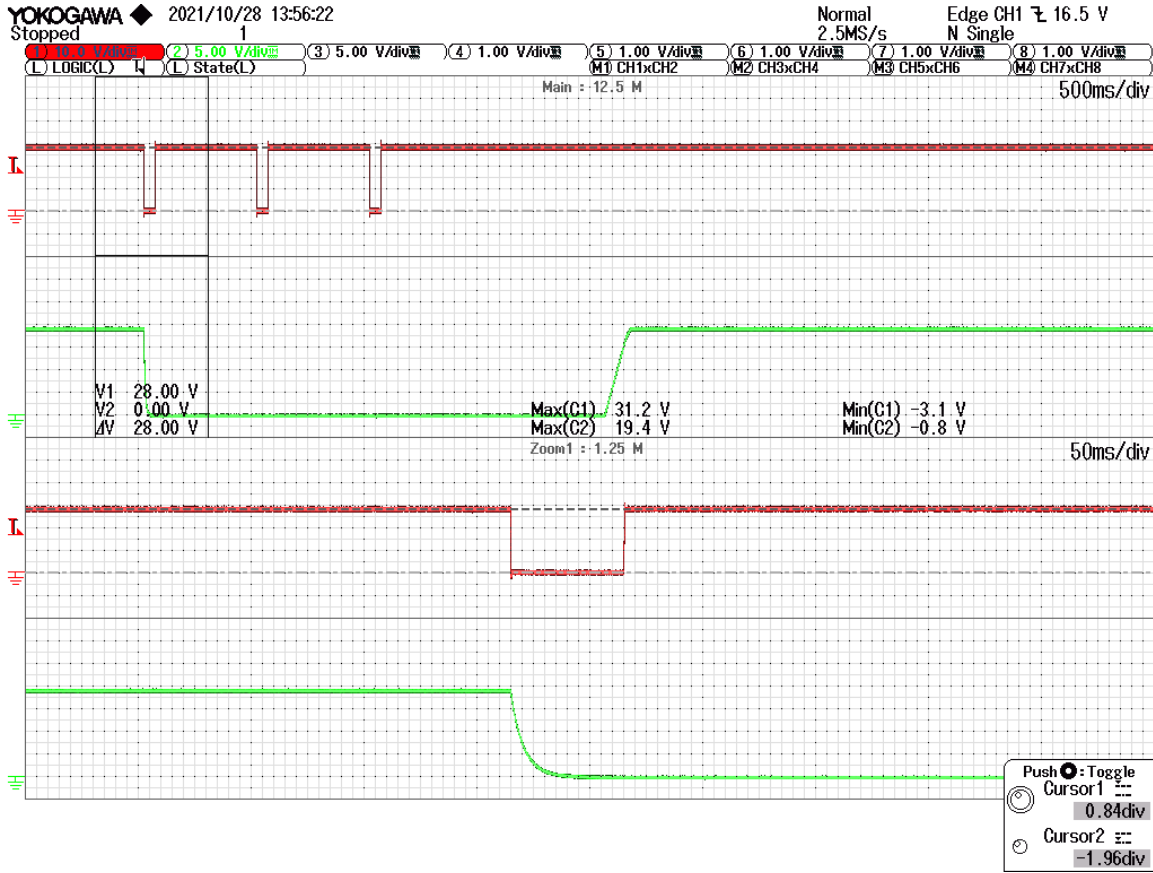


Figure F-51: Condition J, test application with cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2



Figure F-52: Condition K, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

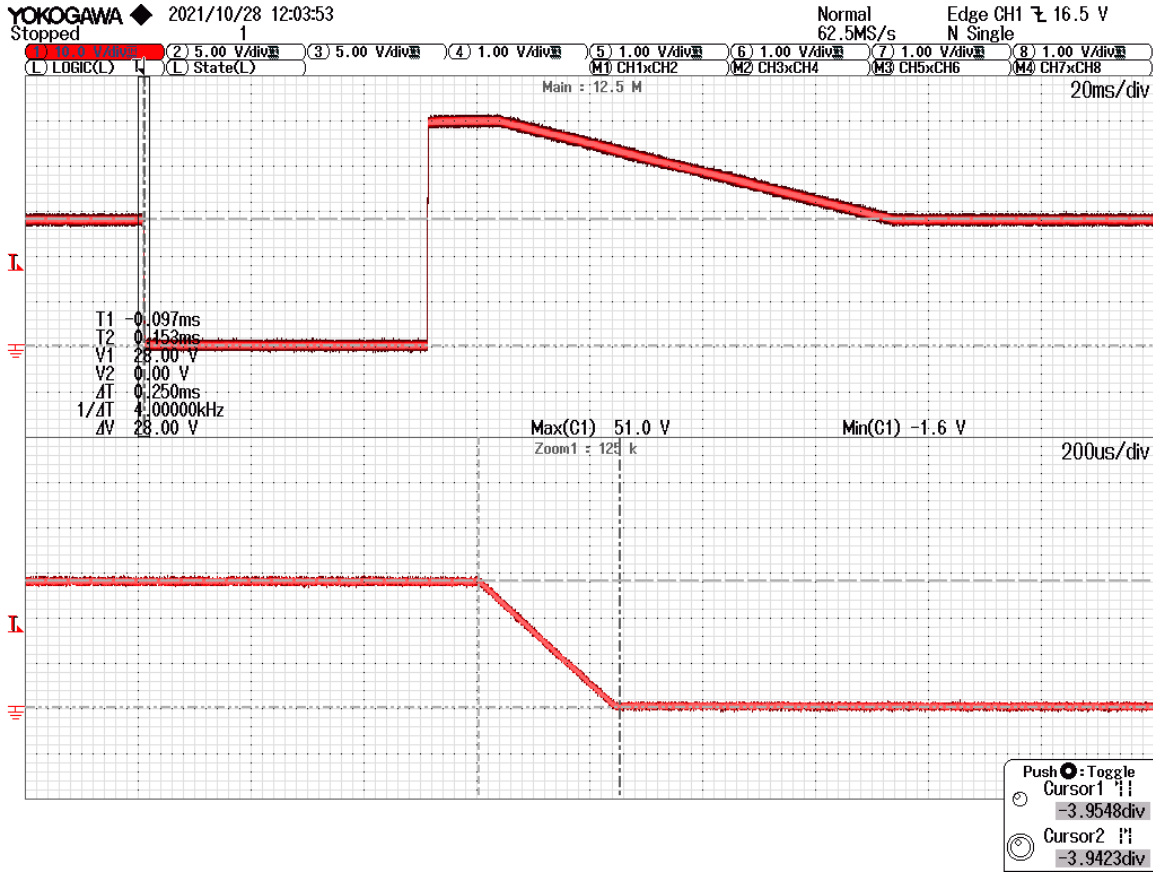


Figure F-53: Condition K, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

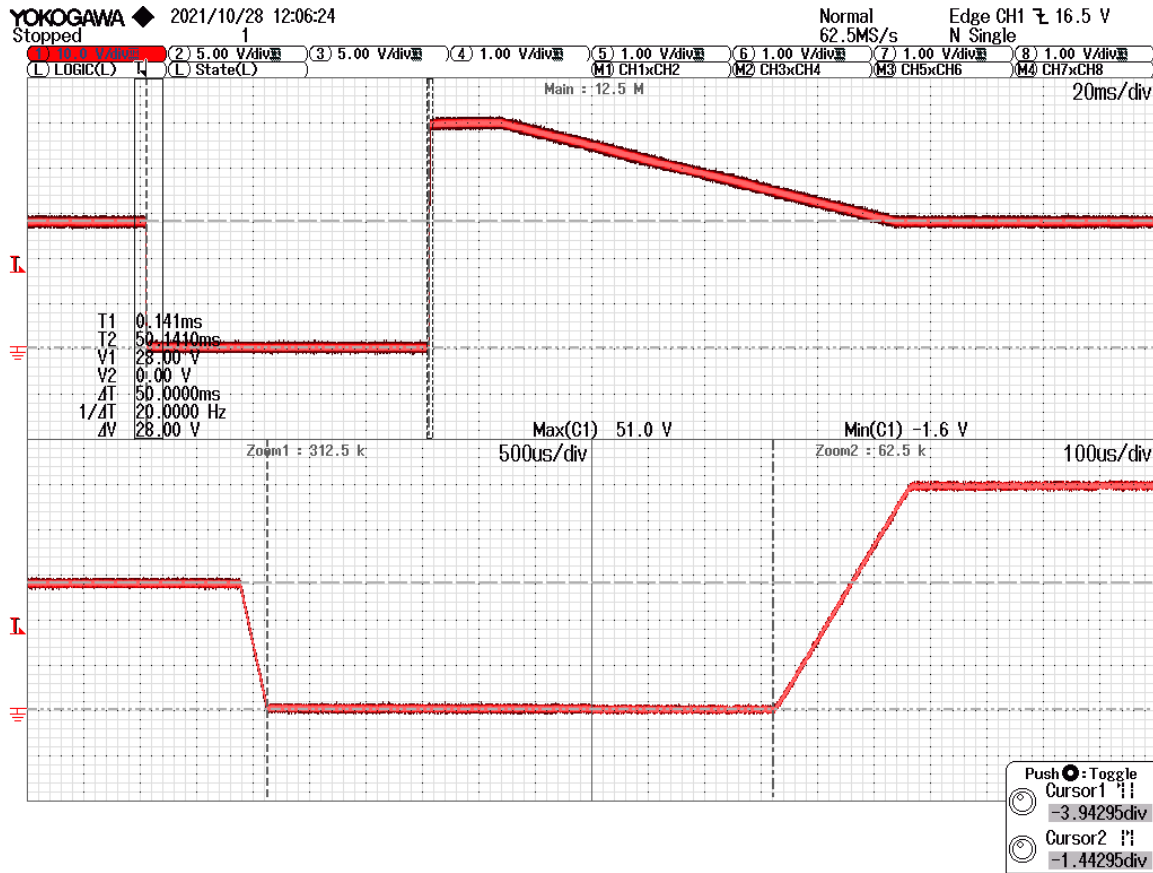


Figure F-54: Condition K, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

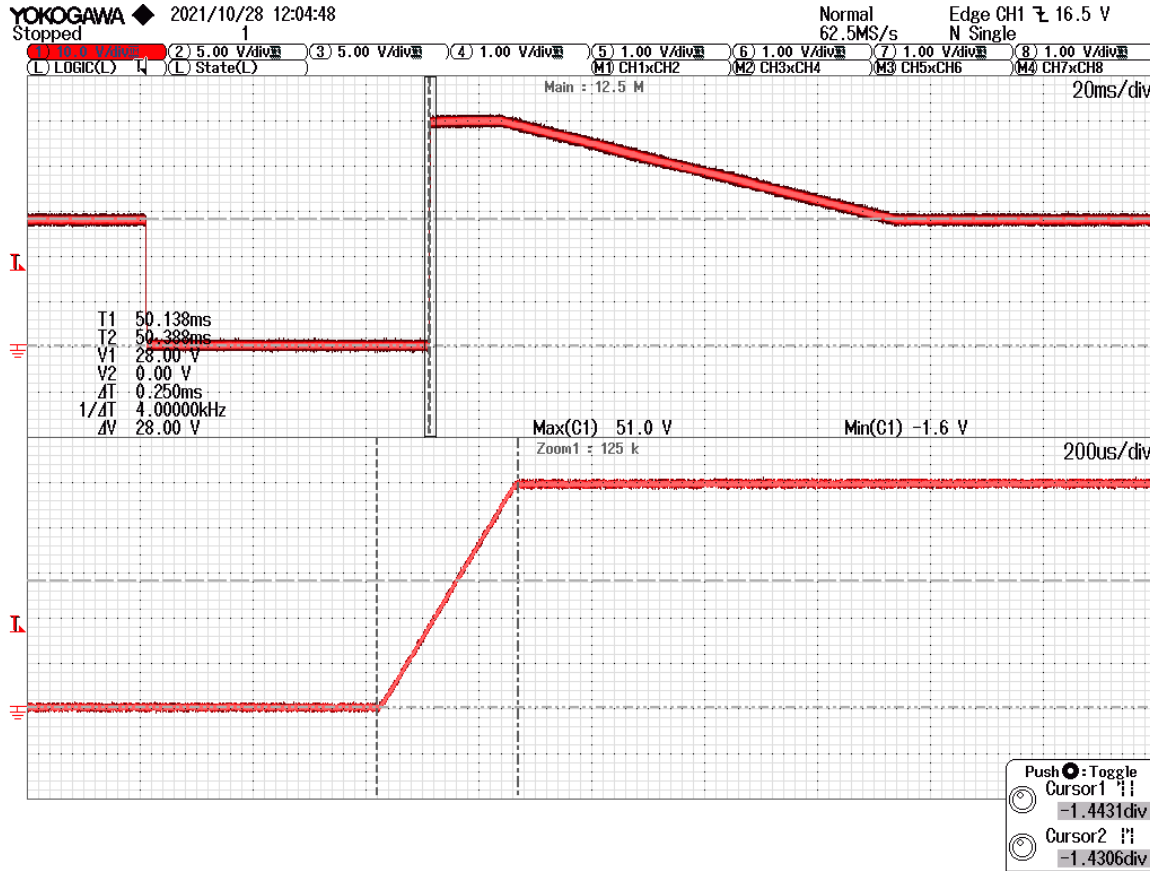


Figure F-55: Condition K, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

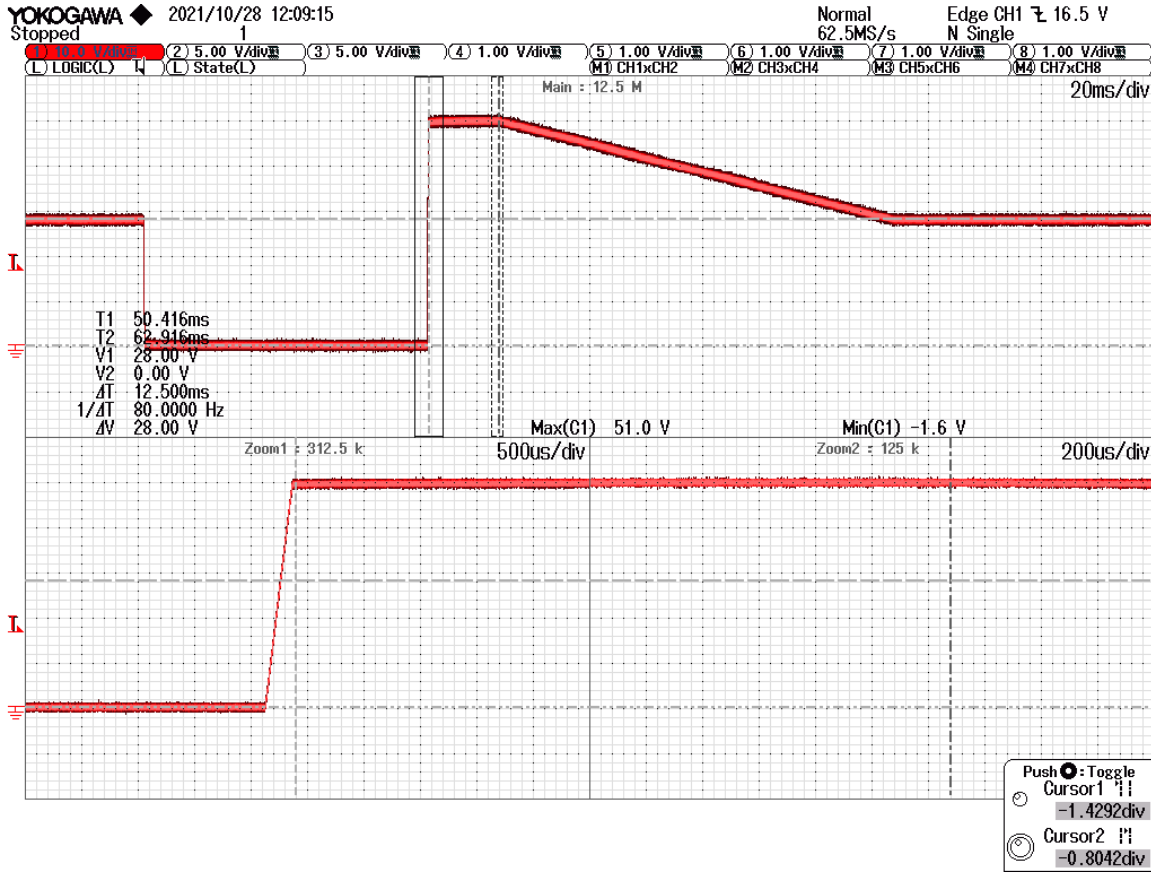


Figure F-56: Condition K, waveform verification, second transient duration

Channel 1 = input voltage



Data sheet **LDC201 Power Transfer, Power Interrupt**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

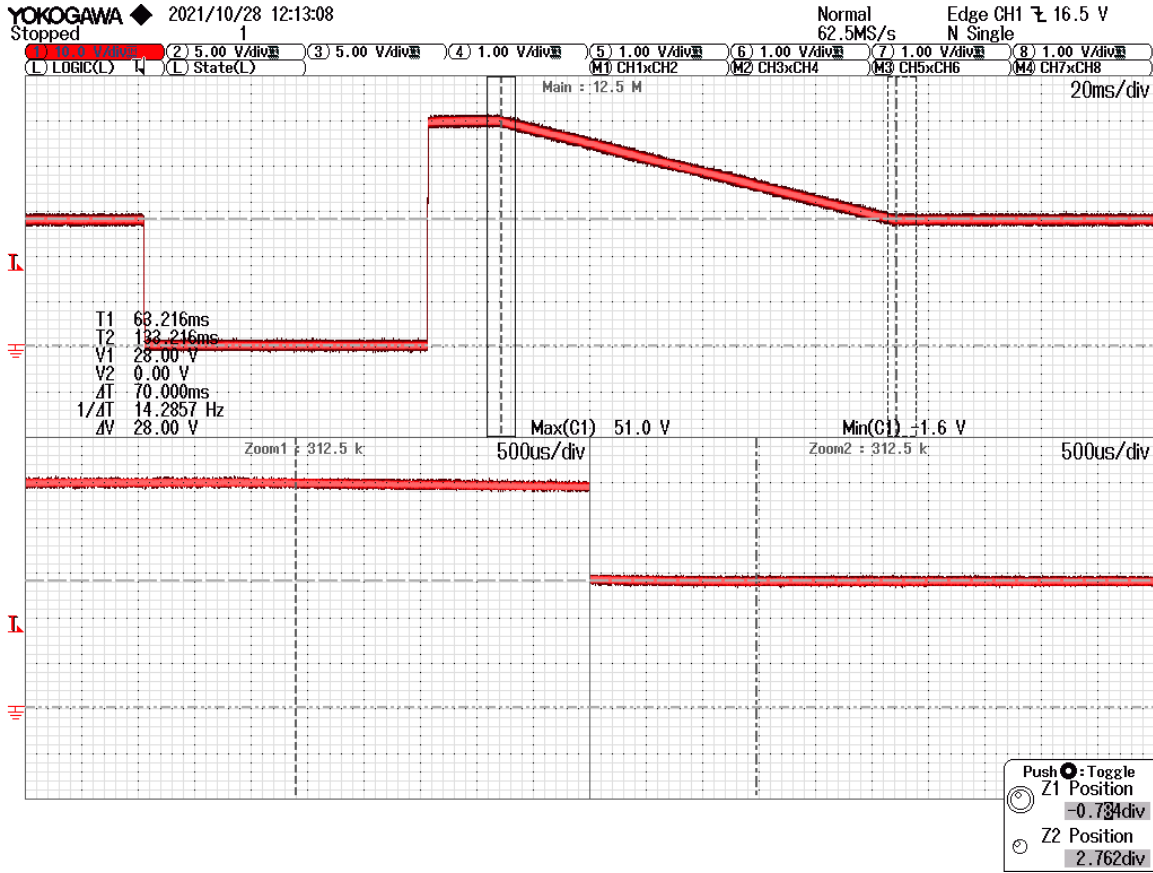


Figure F-57: Condition K, waveform verification, second transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

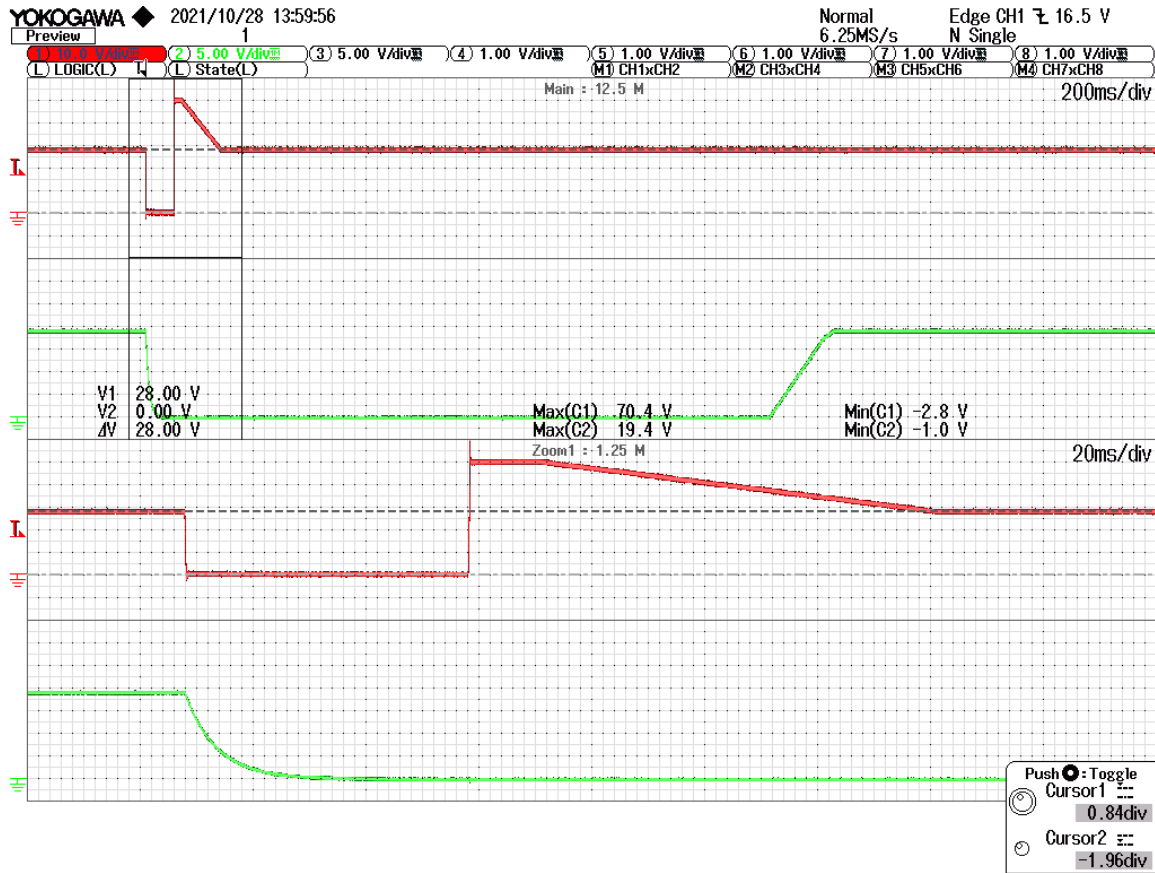


Figure F-58: Condition K, test application with cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

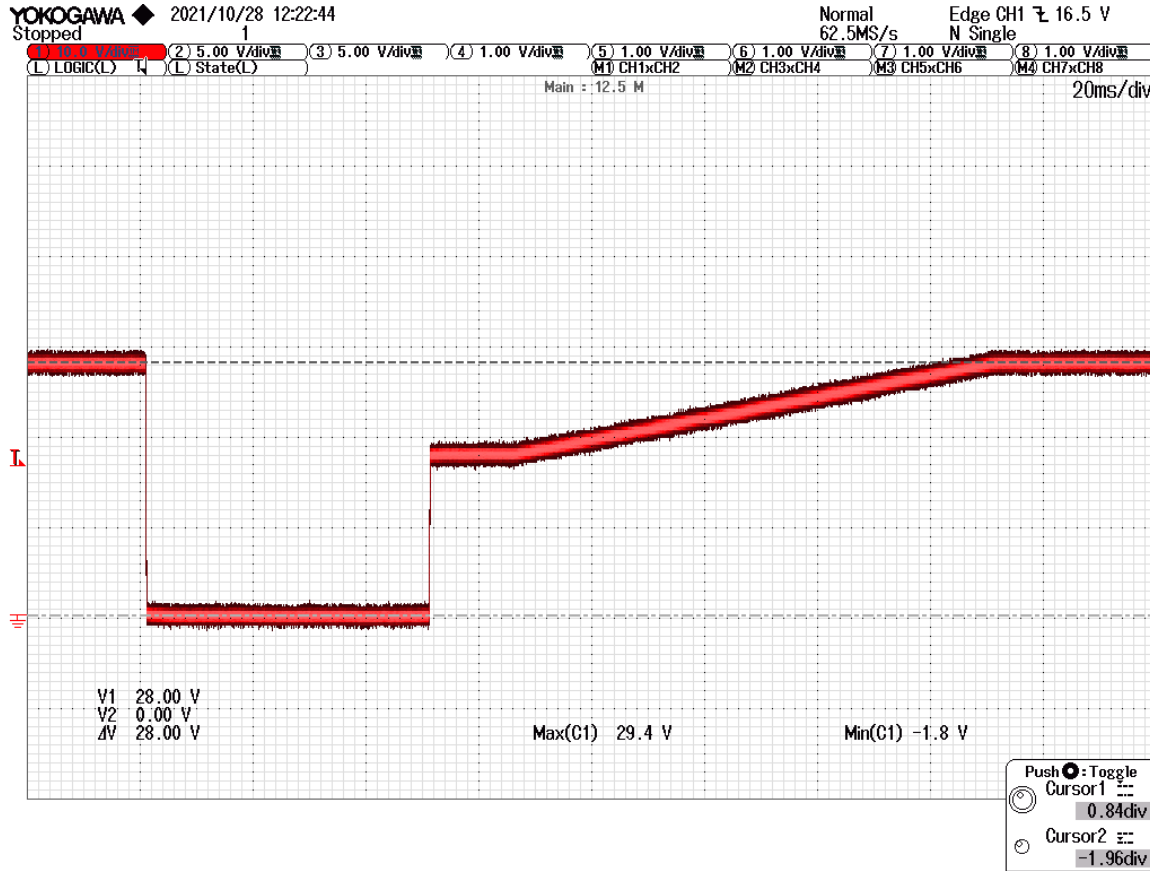


Figure F-59: Condition L, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

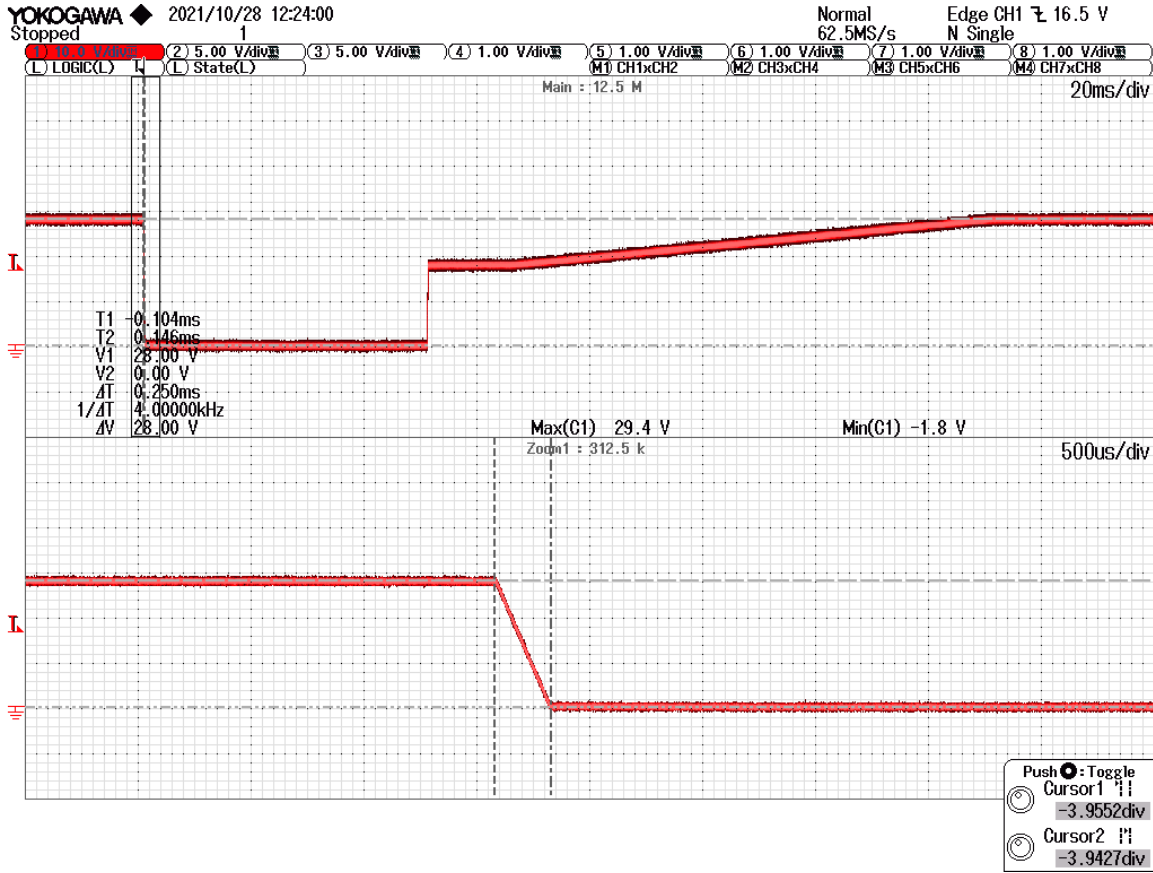


Figure F-60: Condition L, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

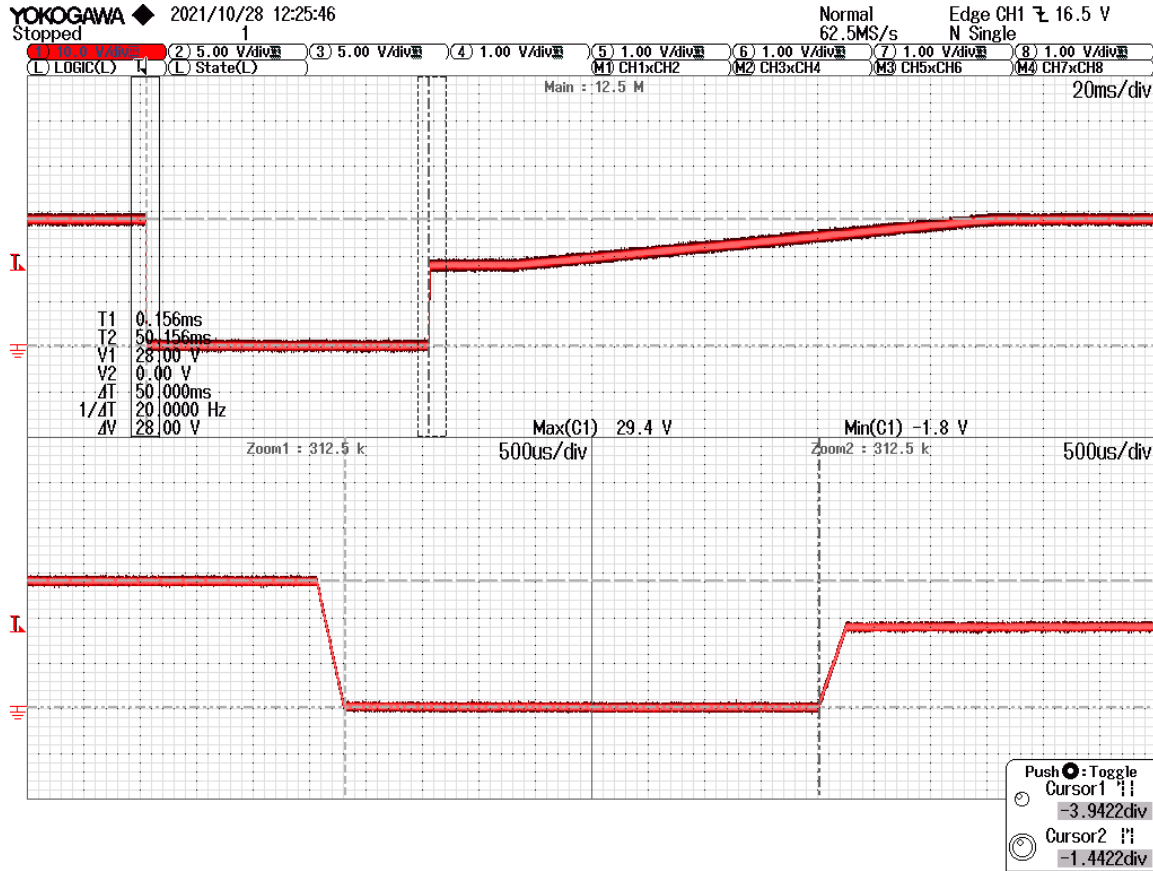


Figure F-61: Condition L, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

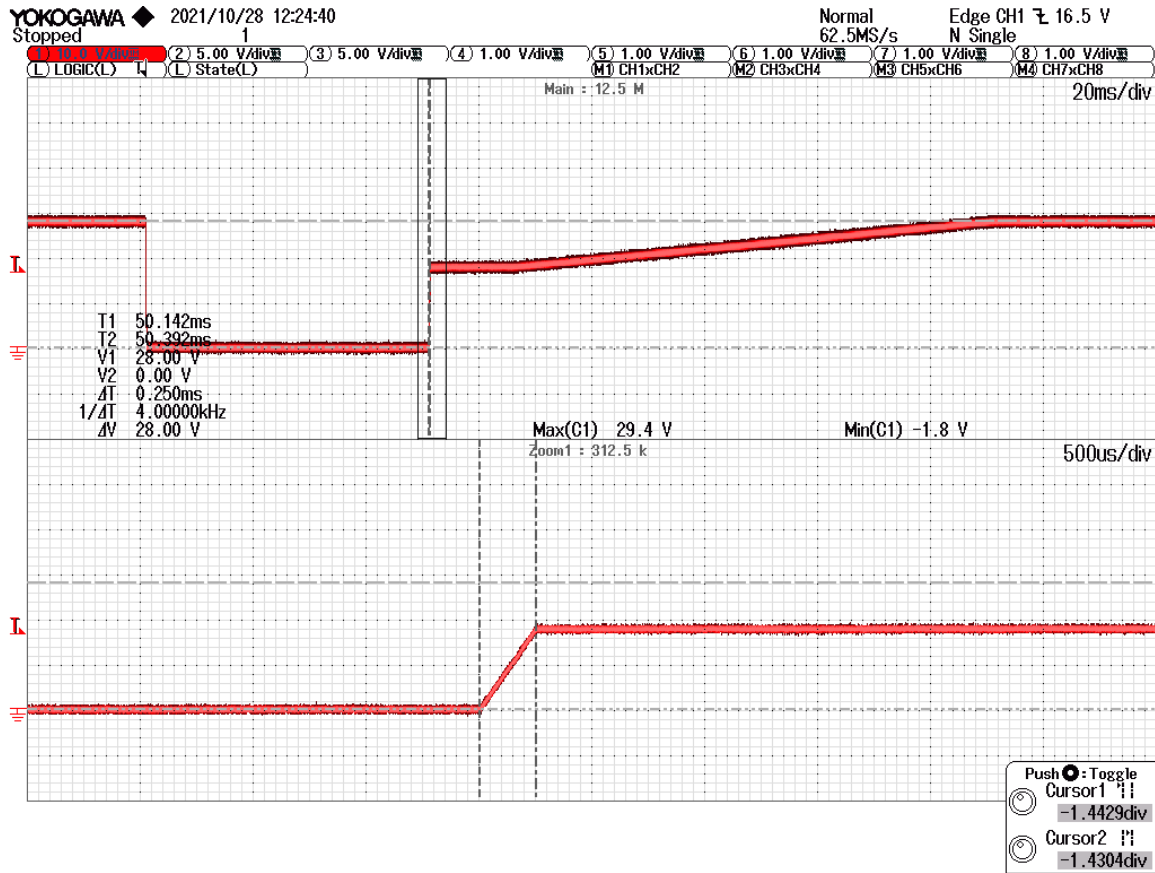


Figure F-62: Condition L, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

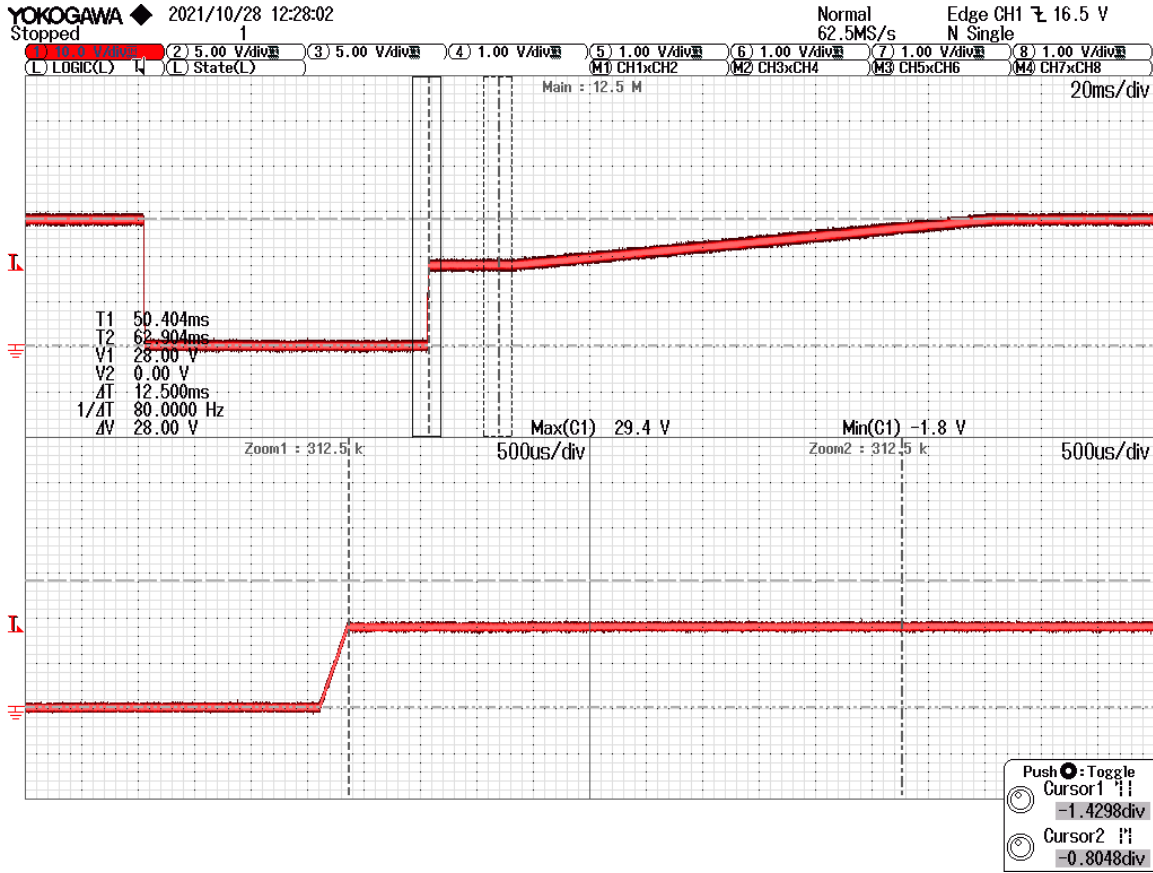


Figure F-63: Condition L, waveform verification, second transient duration

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

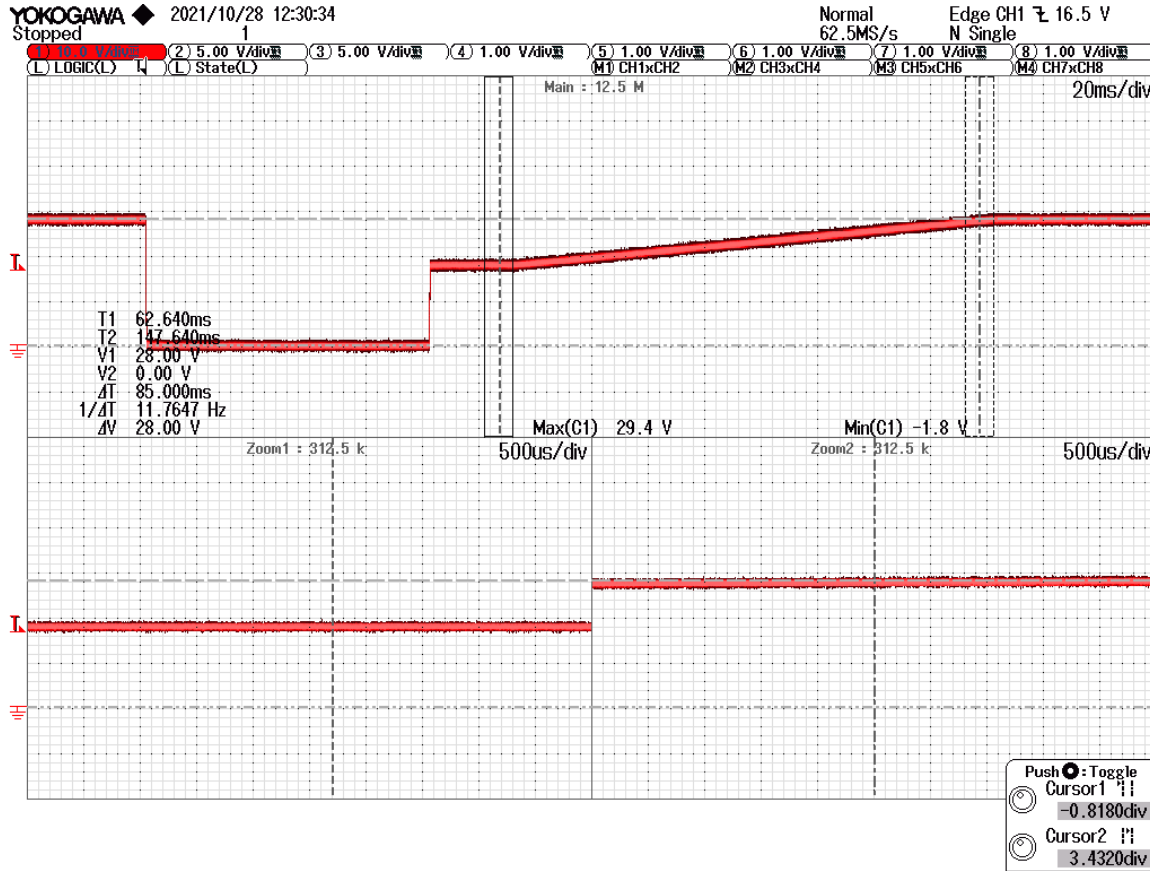


Figure F-64: Condition L, waveform verification, second transient rise time

Channel 1 = input voltage



Data sheet

LDC201 Power Transfer, Power Interrupt

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC201		
DUT description	DC/DC Converter	Test date(s)	10/27/2021 to 10/28/2021	Location	Groundplane G2

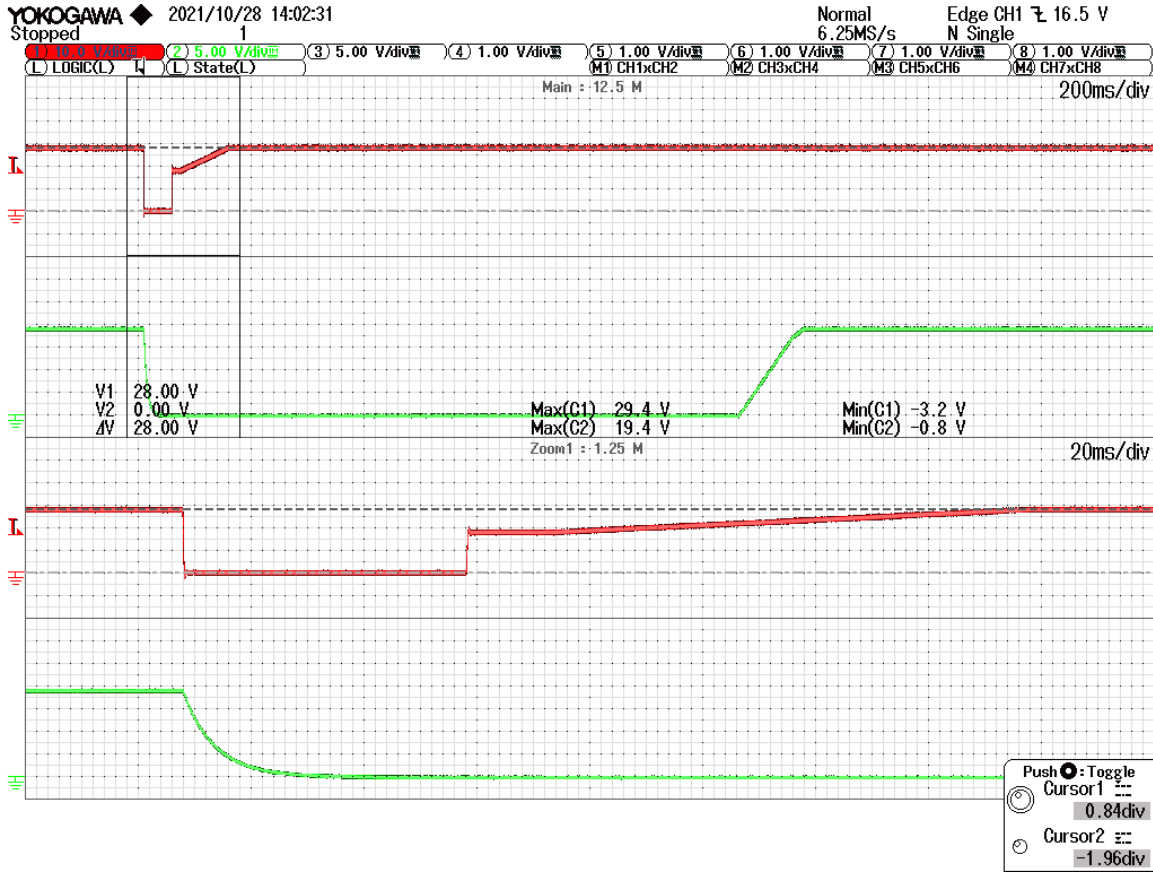


Figure F-65: Condition L, test application with cursor amplitude, maximum and minimum measurements

Channel 1 = input voltage, channel 2 = output voltage

Appendix G: LDC302 Abnormal Voltage Transients



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-176	Amplifier	N/A	310-048	Arbitrary waveform generator	N/A	
300-034	Oscilloscope	X	230-130	Differential probe	X	
230-123	Differential probe	X	230-124	Current probe	X	
210-059	Multimeter	X	380-549	DC power supply	N/A	
400-060	Stopwatch	X				

LDC302 Abnormal Operation, Voltage Transients, Overvoltage Transients Test results								CTD = customer to determine
Condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes	
AAA	29 Vdc	50 Vdc	50 mSec	N/A	N/A	N/A	Figures G-1 through G-4, waveform verification	
AAA	29 Vdc	50 Vdc	50 mSec	Powered	5	Pass	Figures G-5 and G-6	
BBB	29 Vdc	50 Vdc	50 mSec	N/A	N/A	N/A	Figures G-7 through G-14, waveform verification	
BBB	29 Vdc	50 Vdc	50 mSec	Powered	5	CTD	Figures G-15 and G-16, power loss noted; recovered after transient pulse.	
CCC	29 Vdc	50 Vdc, 3 times	50 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures G-17 through G-21, waveform verification	
CCC	29 Vdc	50 Vdc, 3 times	50 mSec, every 0.5 Sec	Powered	5	Pass	Figures G-22 and G-23	
DDD	22 Vdc	50 Vdc	50 mSec	N/A	N/A	N/A	Figures G-24 through G-27, waveform verification	
DDD	22 Vdc	50 Vdc	50 mSec	Powered	5	Pass	Figures G-28 and G-29	
EEE	22 Vdc	50 Vdc	50 mSec	N/A	N/A	N/A	Figures G-30 through G-37, waveform verification	
EEE	22 Vdc	50 Vdc	50 mSec	Powered	5	CTD	Figures G-38 and G-39, power loss noted; recovered after transient pulse.	
FFF	22 Vdc	50 Vdc, 3 times	50 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures G-40 through G-44, waveform verification	
FFF	22 Vdc	50 Vdc, 3 times	50 mSec, every 0.5 Sec	Powered	5	Pass	Figures G-45 and G-46	
GGG	29 Vdc	7 Vdc	50 mSec	N/A	N/A	N/A	Figures G-47 through G-50, waveform verification	
GGG	29 Vdc	7 Vdc	50 mSec	Powered	5	CTD	Figures G-51 and G-52, power loss noted; recovered after transient pulse.	
HHH	29 Vdc	7 Vdc	50 mSec	N/A	N/A	N/A	Figures G-53 through G-60, waveform verification	
HHH	29 Vdc	7 Vdc	50 mSec	Powered	5	CTD	Figures G-61 and G-62, power loss noted; recovered after transient pulse.	
III	29 Vdc	7 Vdc, 3 times	50 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures G-63 through G-67, waveform verification	
III	29 Vdc	7 Vdc, 3 times	50 mSec, every 0.5 Sec	Powered	5	CTD	Figures G-68 and G-69, power loss noted; recovered after transient pulse.	
JJJ	22 Vdc	7 Vdc	50 mSec	N/A	N/A	N/A	Figures G-70 through G-73, waveform verification	



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

LDC302 Abnormal Operation, Voltage Transients, Overvoltage Transients Test results							CTD = customer to determine
Condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
JJJ	22 Vdc	7 Vdc	50 mSec	Powered	5	CTD	Figures G-74 and G-75, power loss noted; recovered after transient pulse.
KKK	22 Vdc	7 Vdc	50 mSec	N/A	N/A	N/A	Figures G-76 through G-81, waveform verification
KKK	22 Vdc	7 Vdc	50 mSec	Powered	5	CTD	Figures G-82 and G-83, power loss noted; recovered after transient pulse.
LLL	22 Vdc	7 Vdc, 3 times	50 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures G-84 through G-88, waveform verification
LLL	22 Vdc	7 Vdc, 3 times	50 mSec, every 0.5 Sec	Powered	5	CTD	Figures G-89 and G-90, power loss noted; recovered after transient pulse.
MMM	29 Vdc	7 Vdc / 50 Vdc	10 mSec / 50 mSec	N/A	N/A	N/A	Figures G-91 through G-100, waveform verification
MMM	29Vdc	7 Vdc / 50 Vdc	10 mSec / 50 mSec	Powered	5	CTD	Figures G-101 and G-102, power loss noted; recovered after transient pulse.
NNN	22 Vdc	7 Vdc / 50 Vdc	10 mSec / 50 mSec	N/A	N/A	N/A	Figures G-103 through G-112, waveform verification
NNN	22 Vdc	7 Vdc / 50 Vdc	10 mSec / 50 mSec	Powered	5	CTD	Figures G-113 and G-114, power loss noted; recovered after transient pulse.



Data sheet
LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Photograph G-1: EUT identification



Data sheet
LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



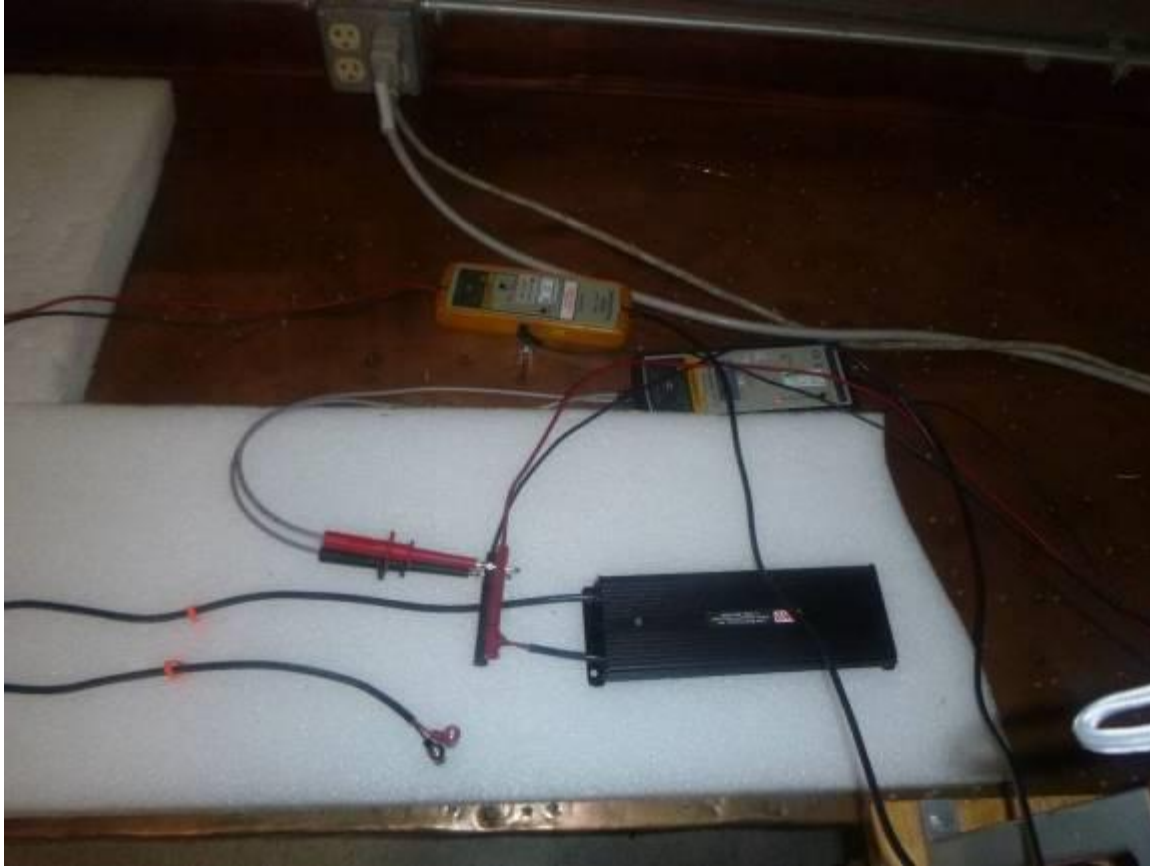
Photograph G-2: Test setup, waveform verification



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Photograph G-3: Test setup



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Photograph G-4: Test setup



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

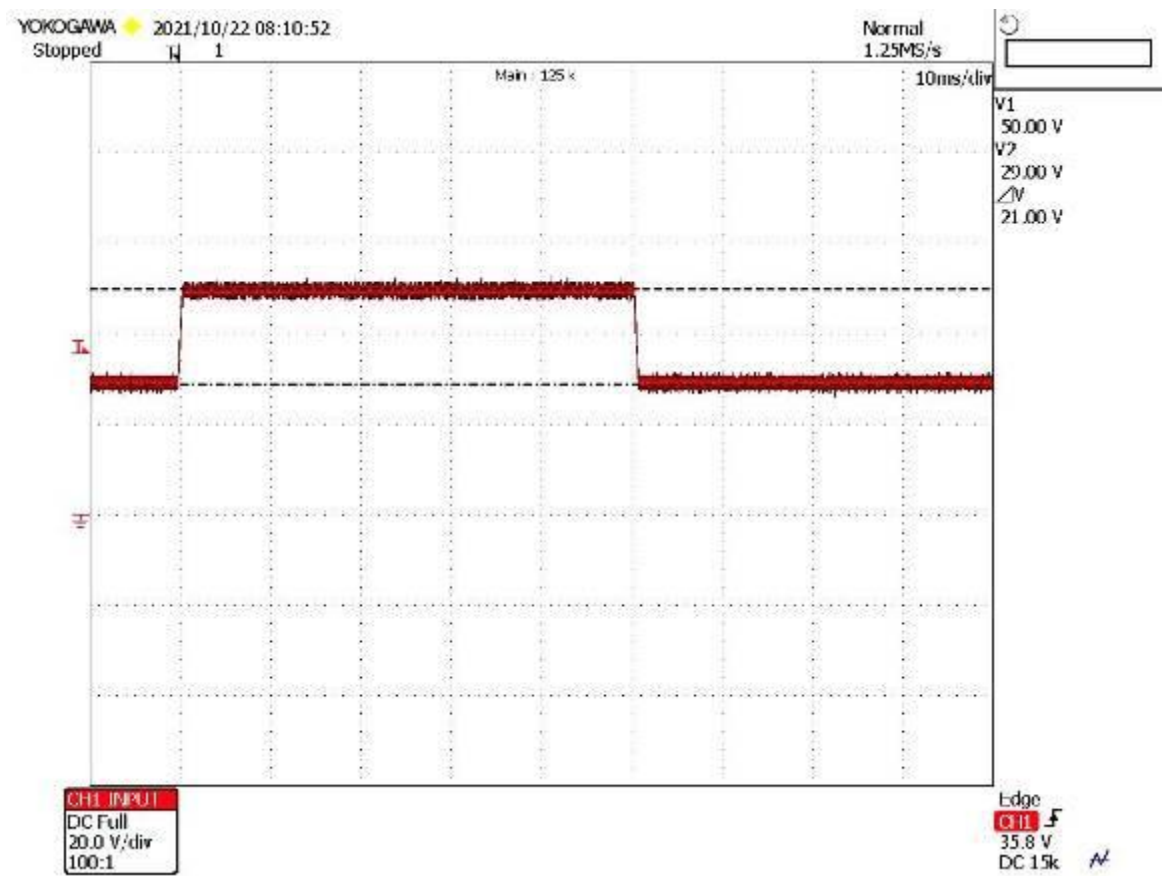


Figure I-1: Condition AAA, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

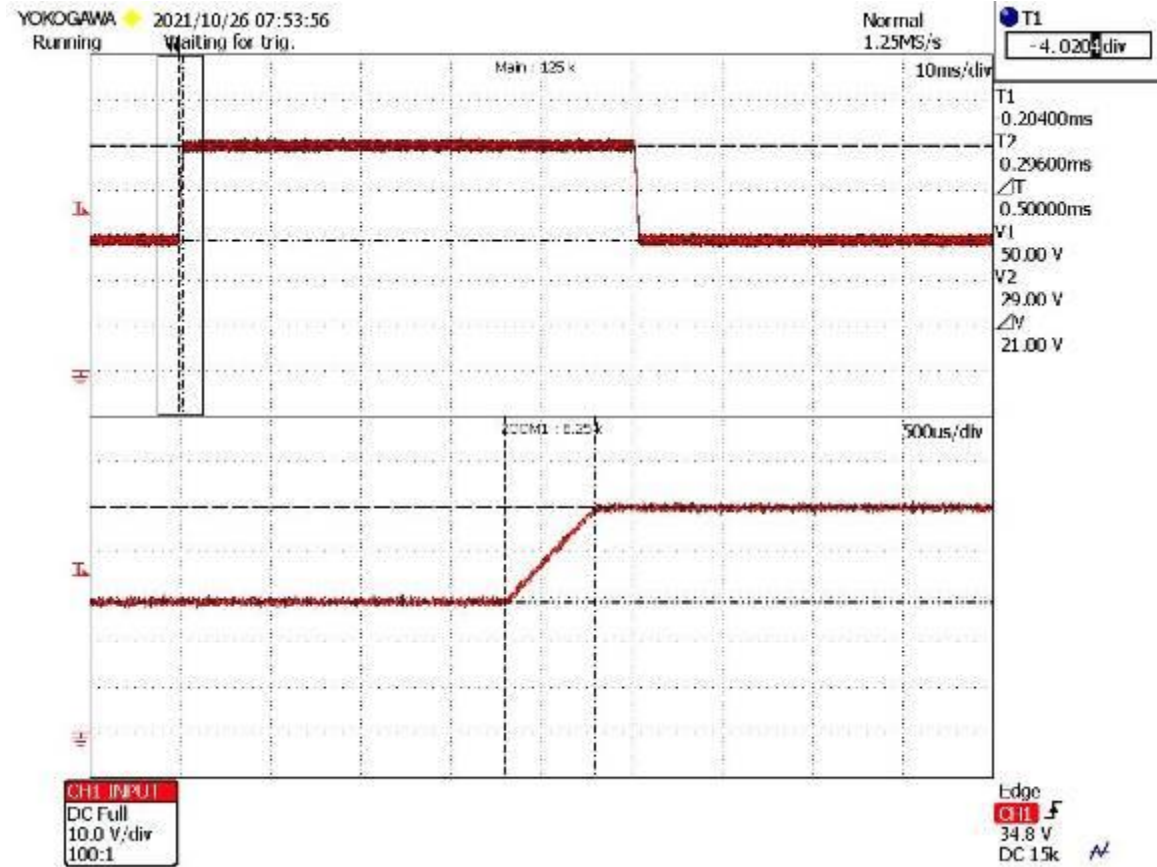


Figure I-2: Condition AAA, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

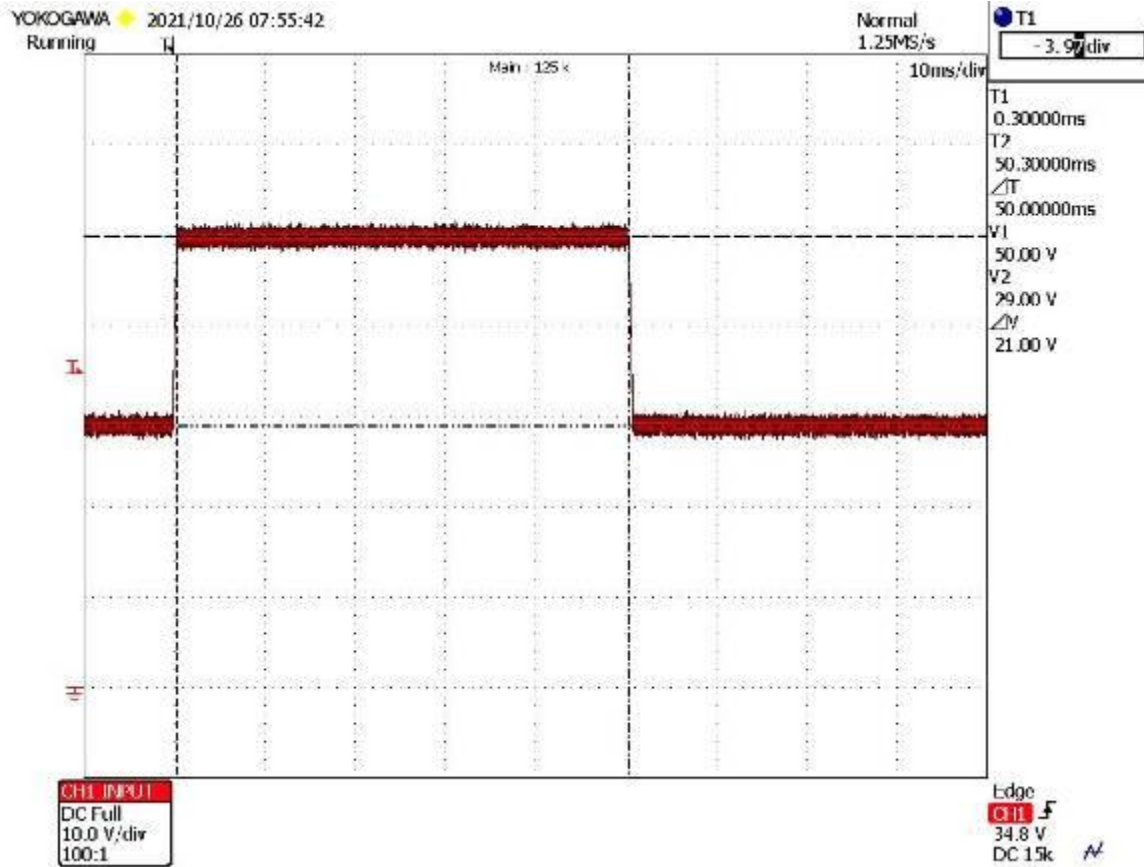


Figure I-3: Condition AAA, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

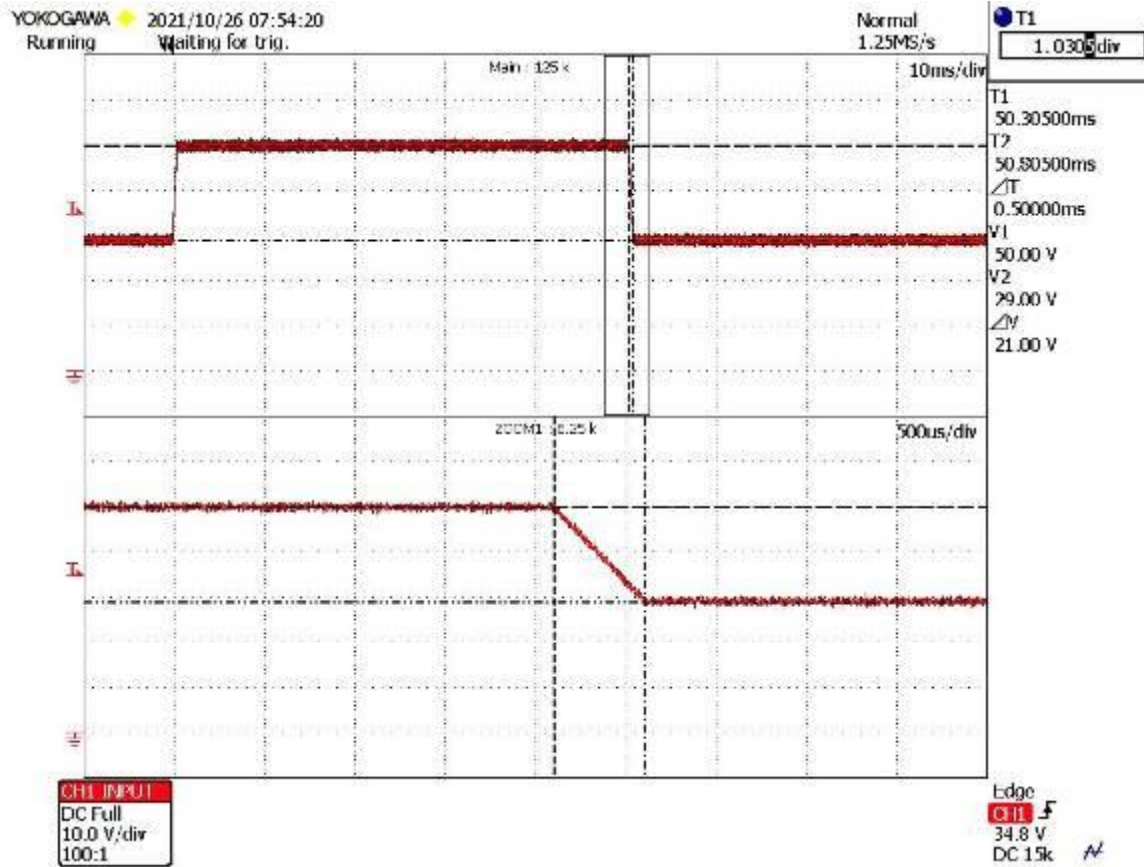


Figure I-4: Condition AAA, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

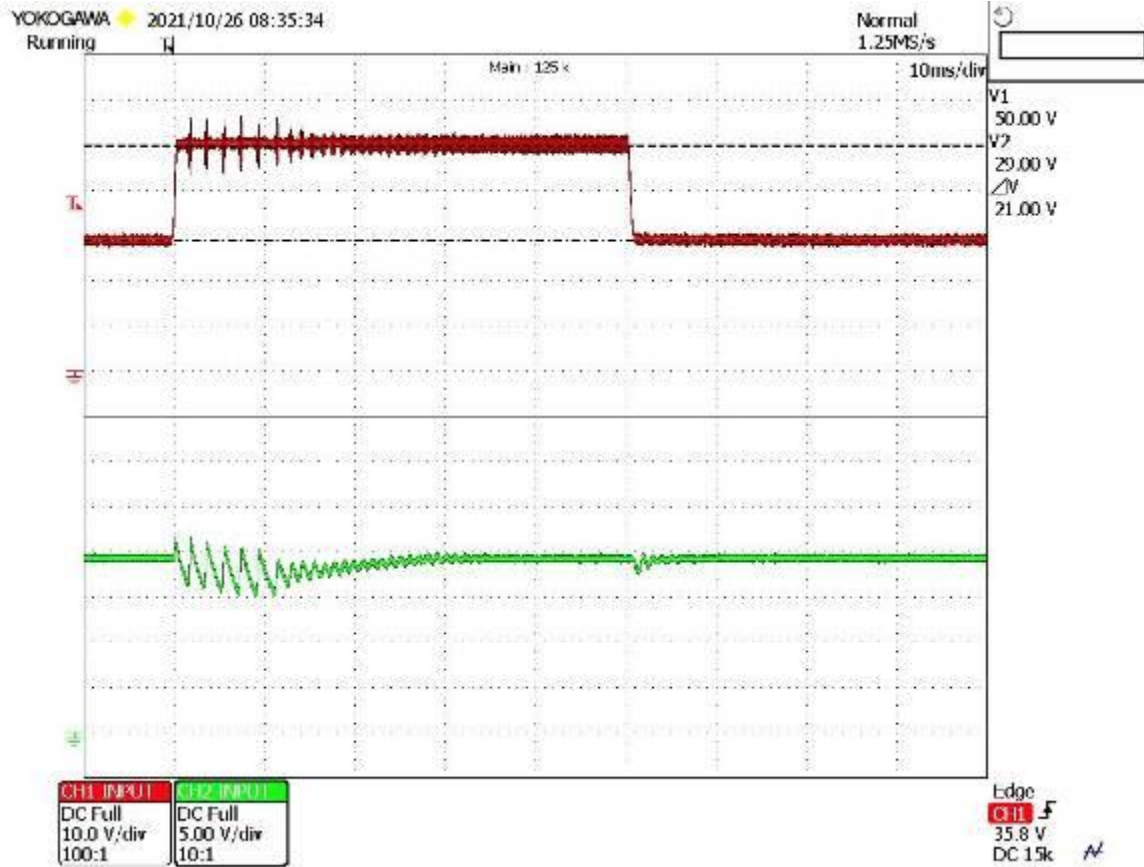


Figure I-5: Condition AAA, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

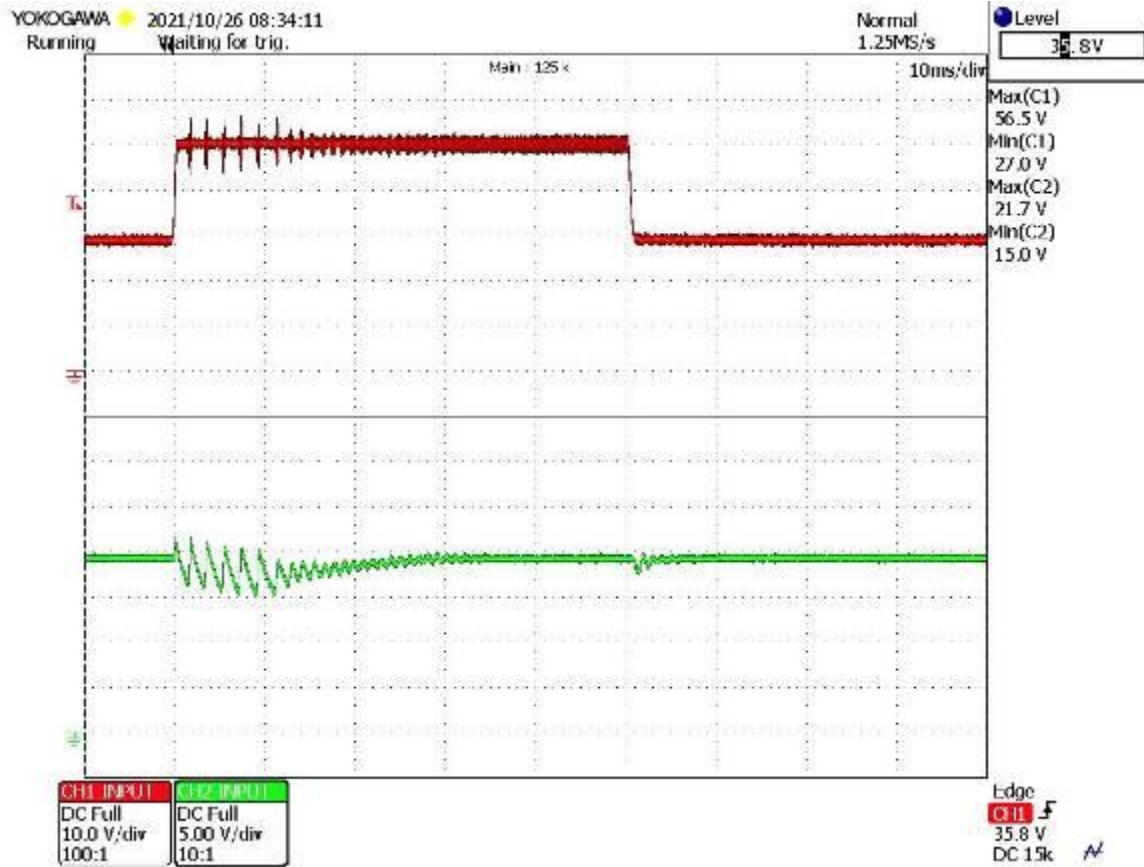


Figure I-6: Condition AAA, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

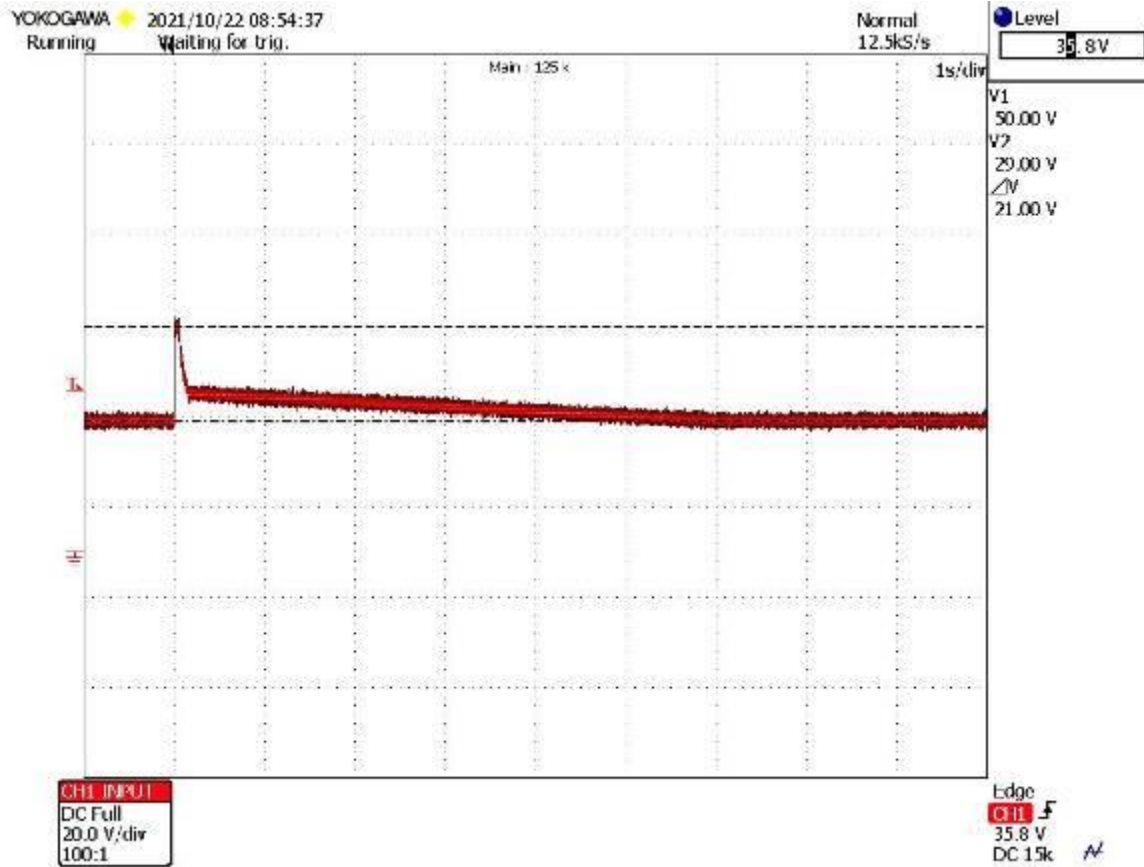


Figure I-7: Condition BBB, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

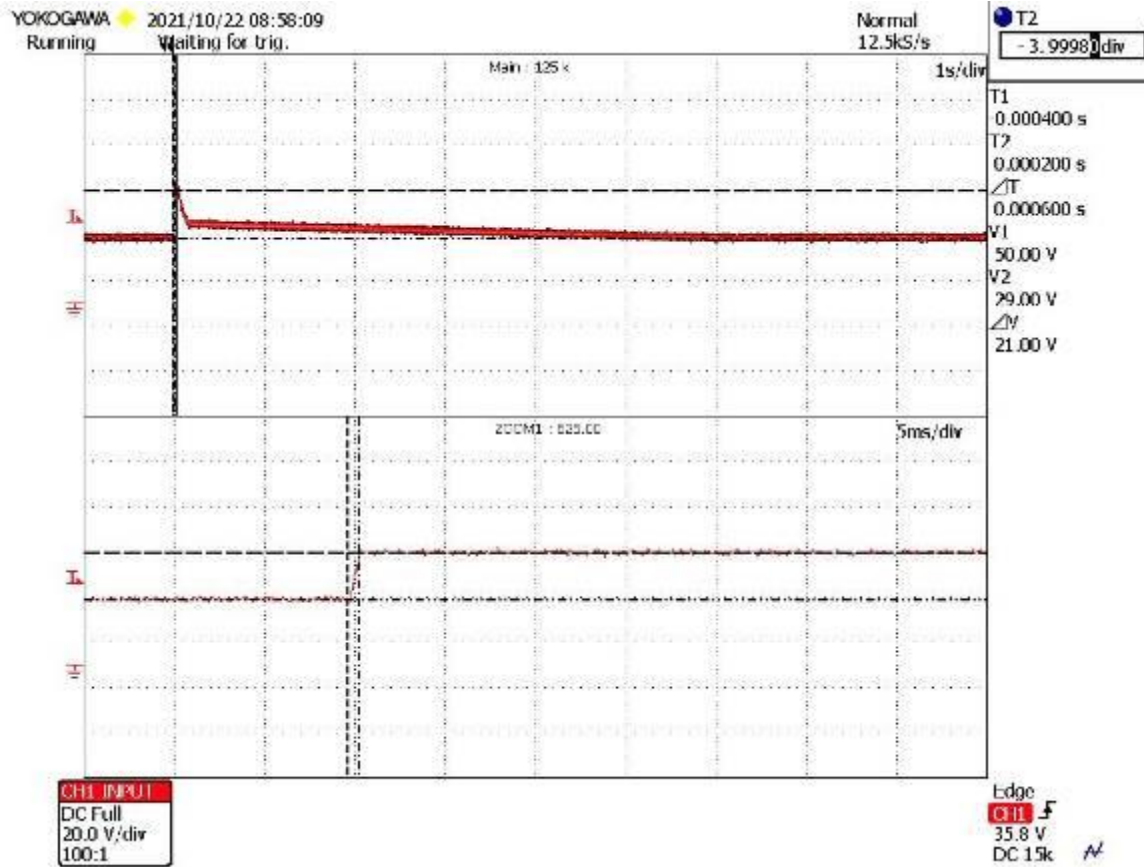


Figure I-8: Condition BBB, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

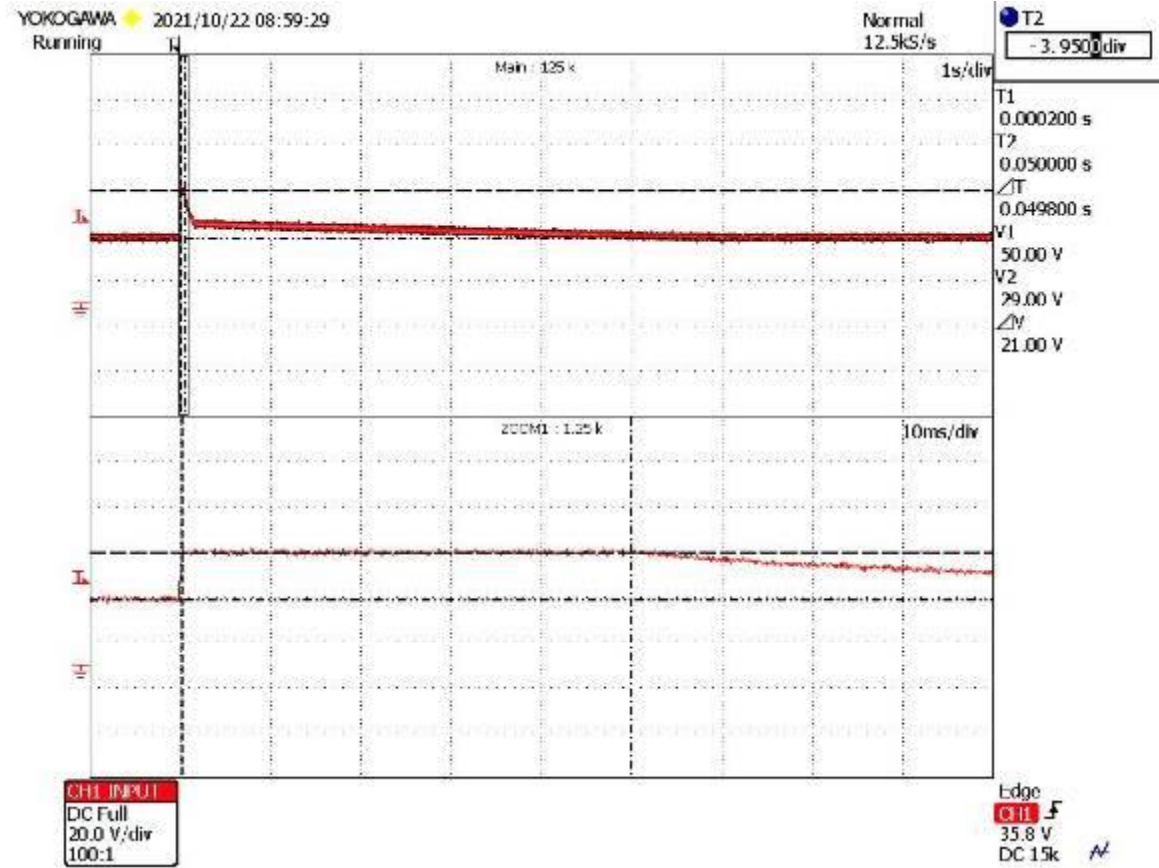


Figure I-9: Condition BBB, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

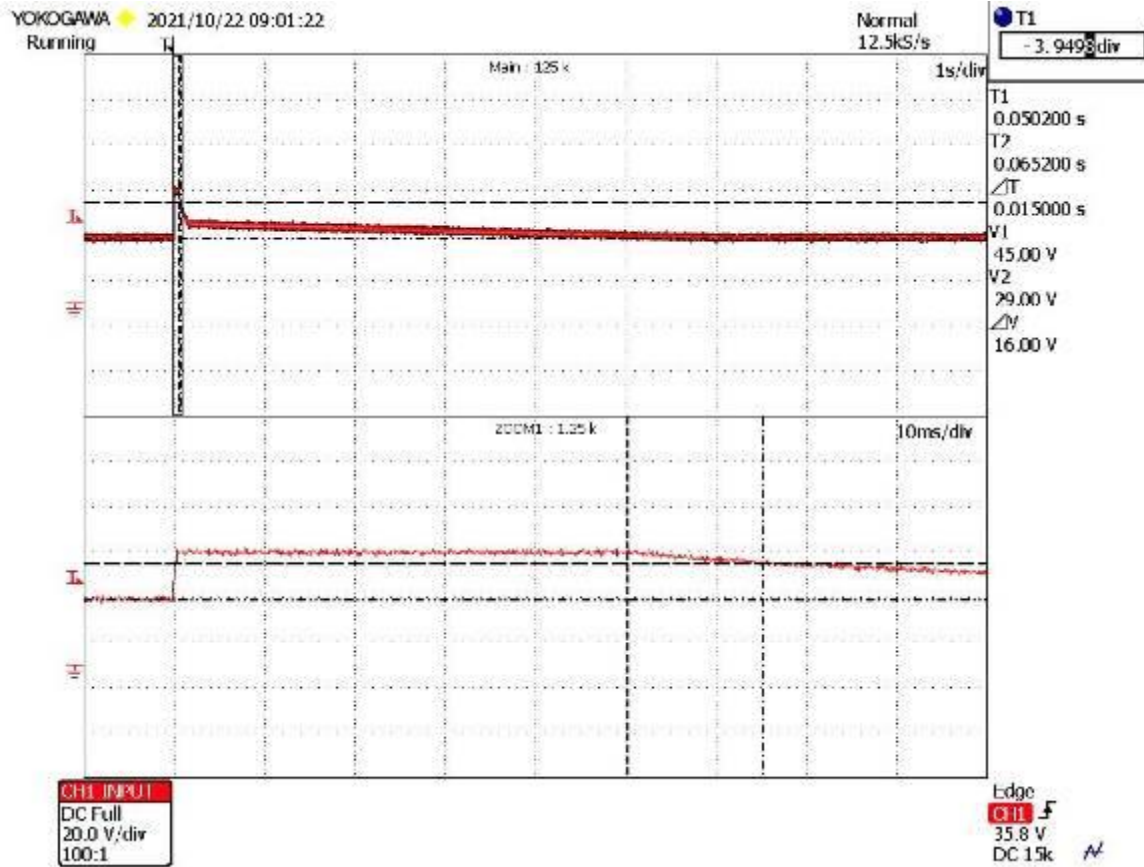


Figure I-10: Condition BBB, waveform verification, first transient to second transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

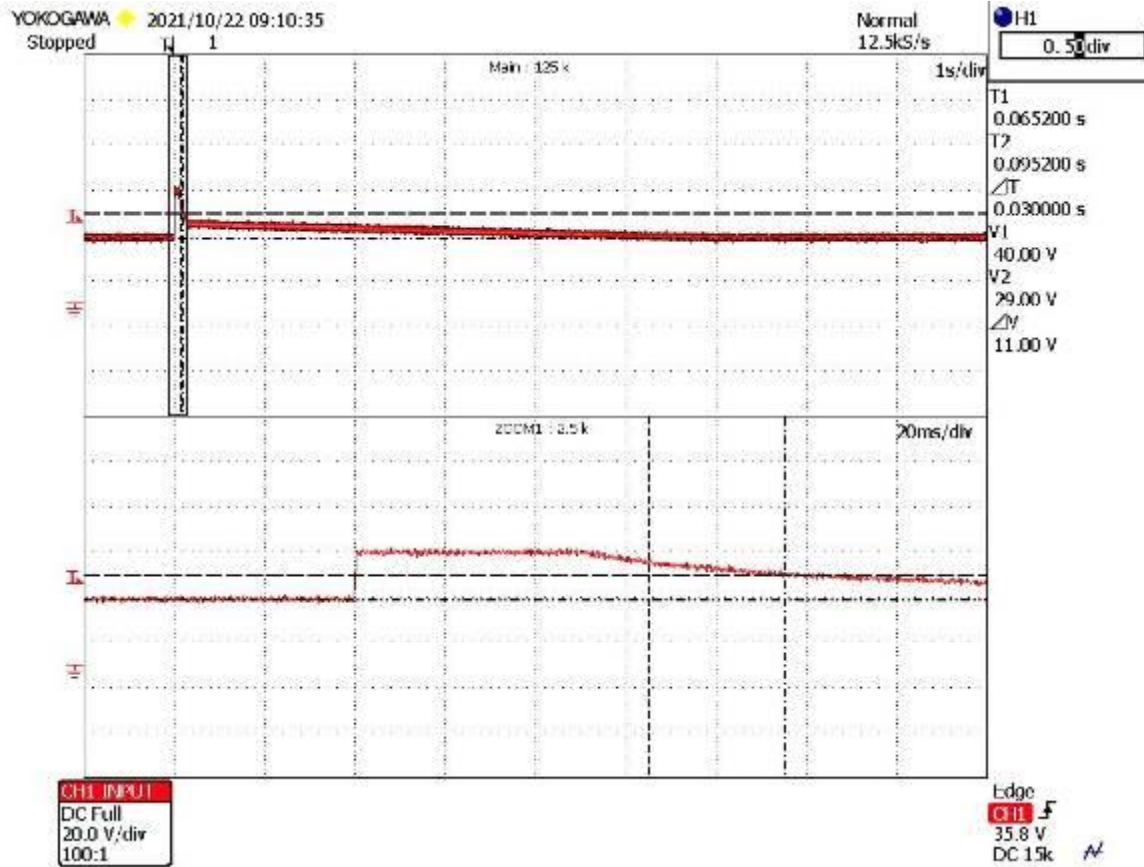


Figure I-11: Condition BBB, waveform verification, second transient to third transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

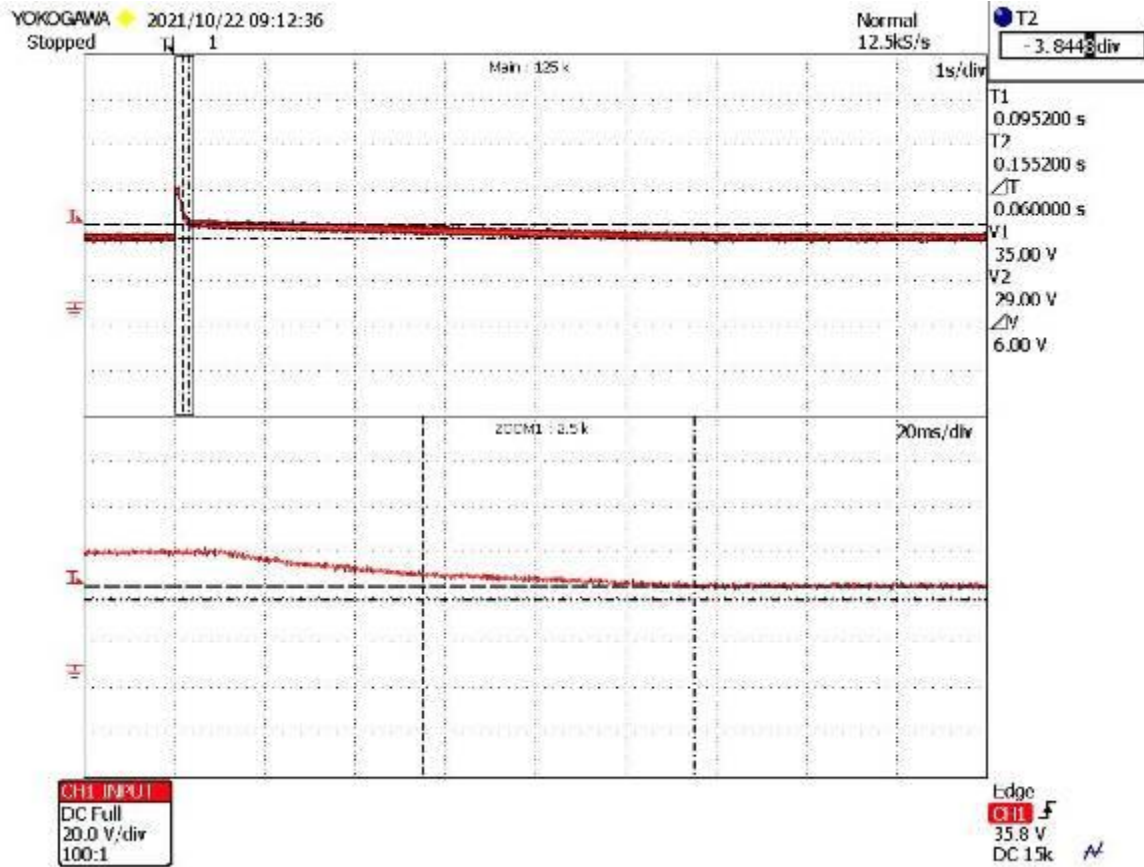


Figure I-12: Condition BBB, waveform verification, third transient to fourth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

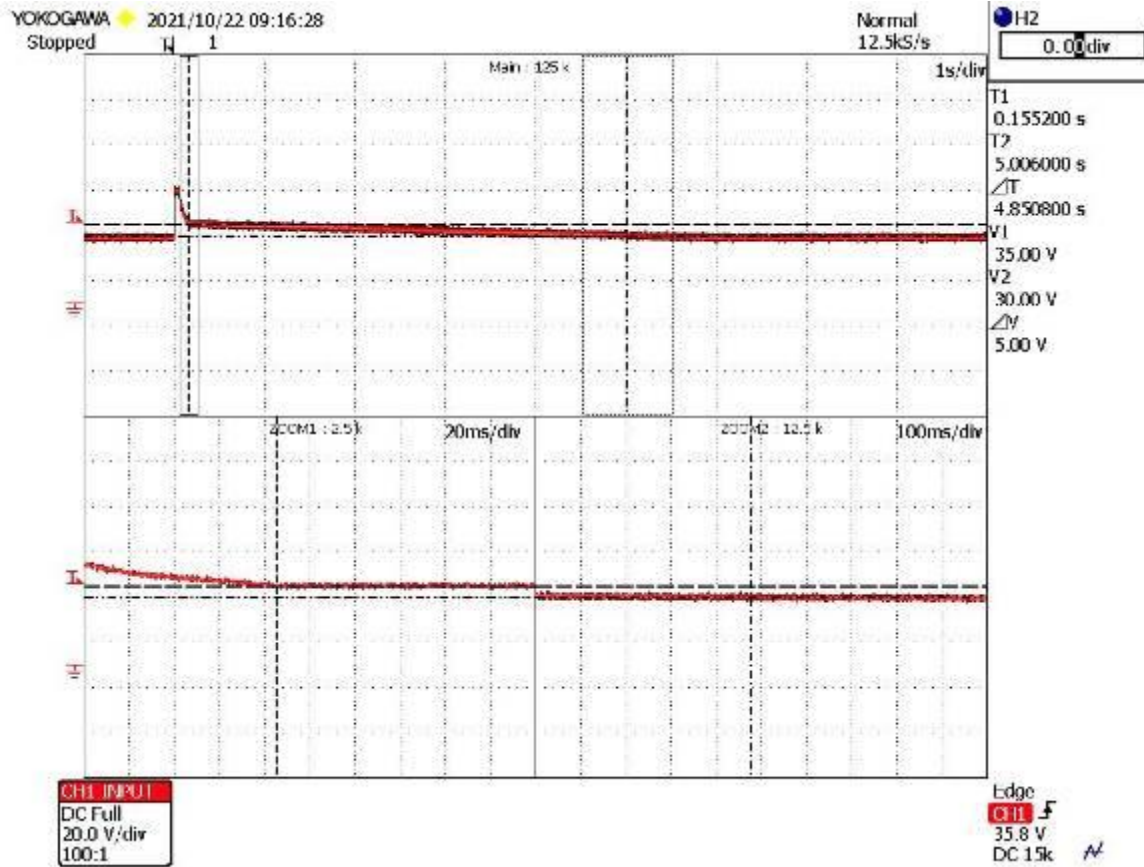


Figure I-13: Condition BBB, waveform verification, fourth transient to fifth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

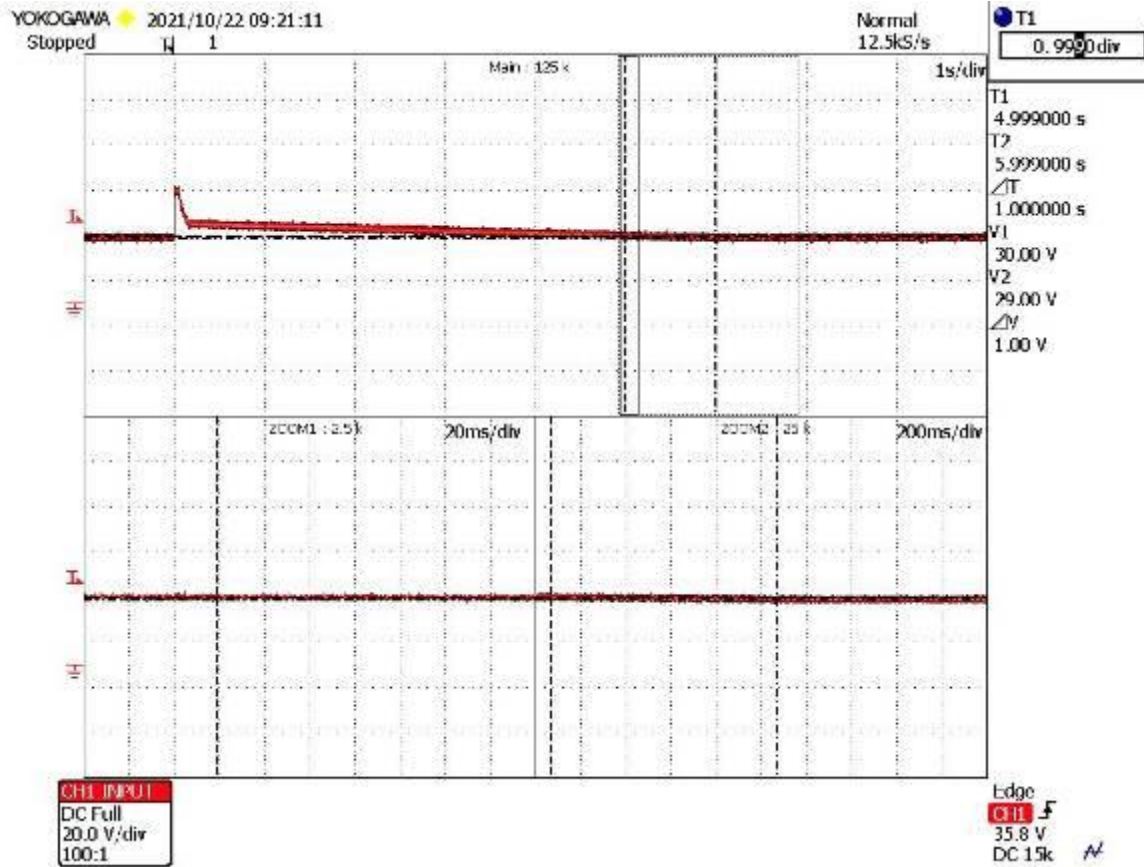


Figure I-14: Condition BBB, waveform verification, fifth transient to steady state fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

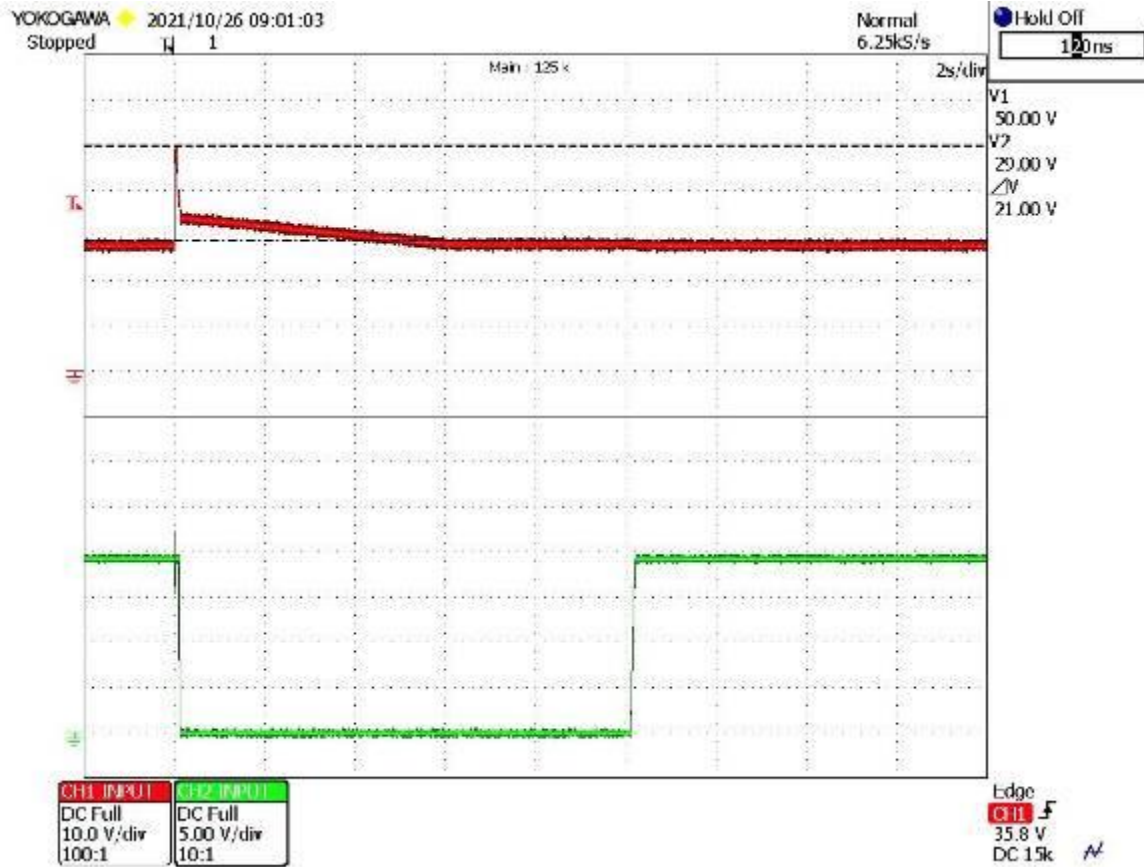


Figure I-15: Condition BBB, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

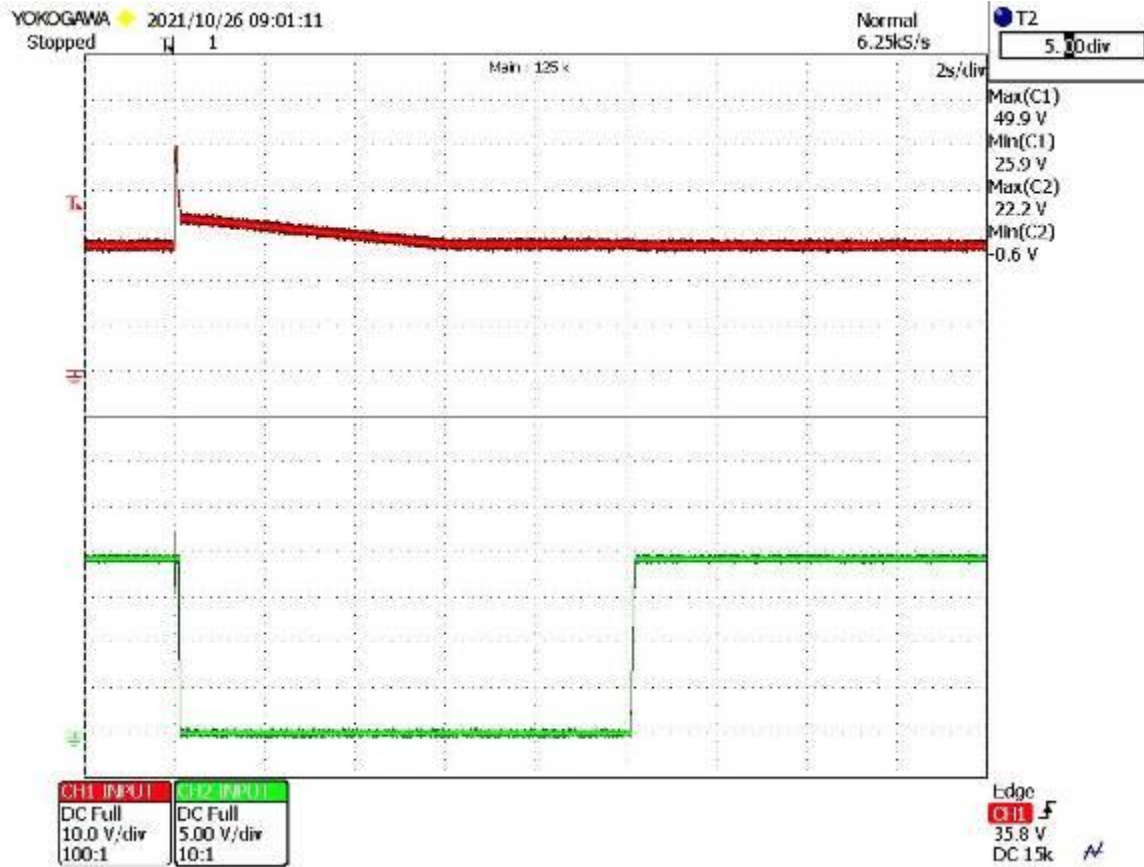


Figure I-16: Condition BBB, test application with minimum and G-maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

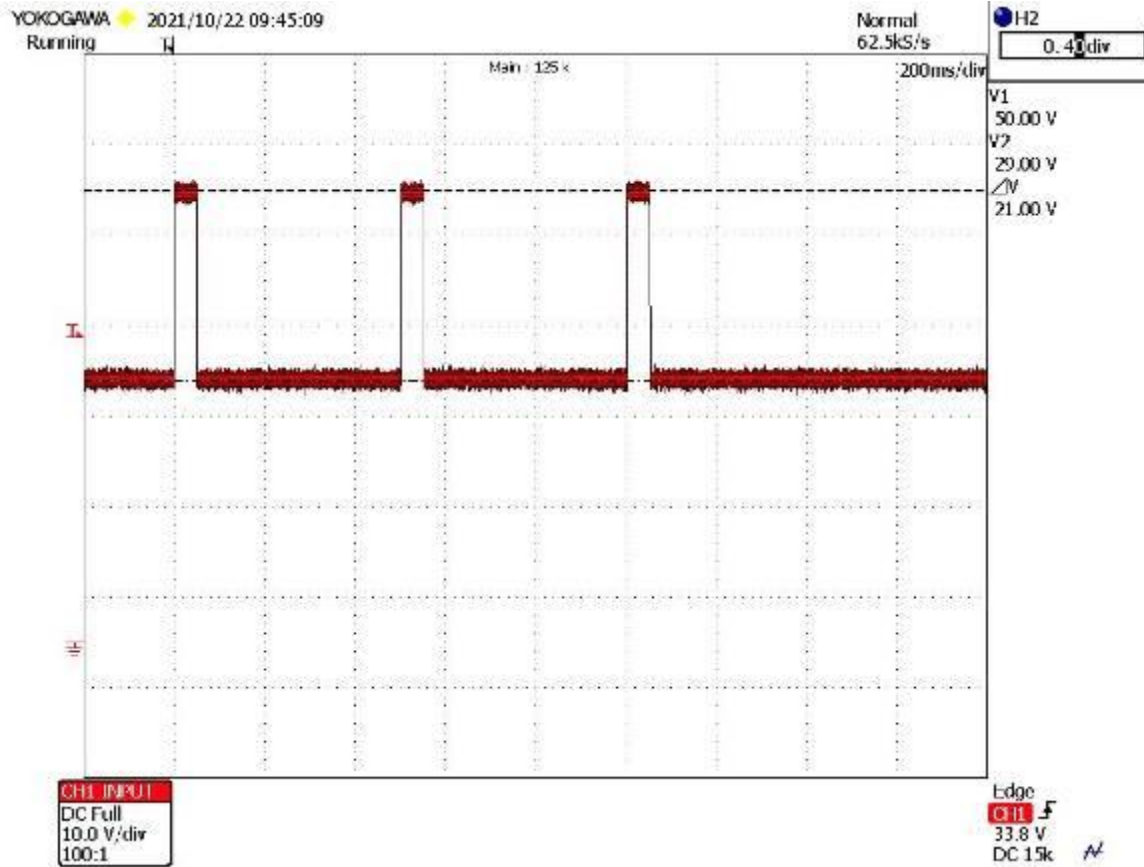


Figure I-17: Condition CCC, 3 times every 0.5 sec, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

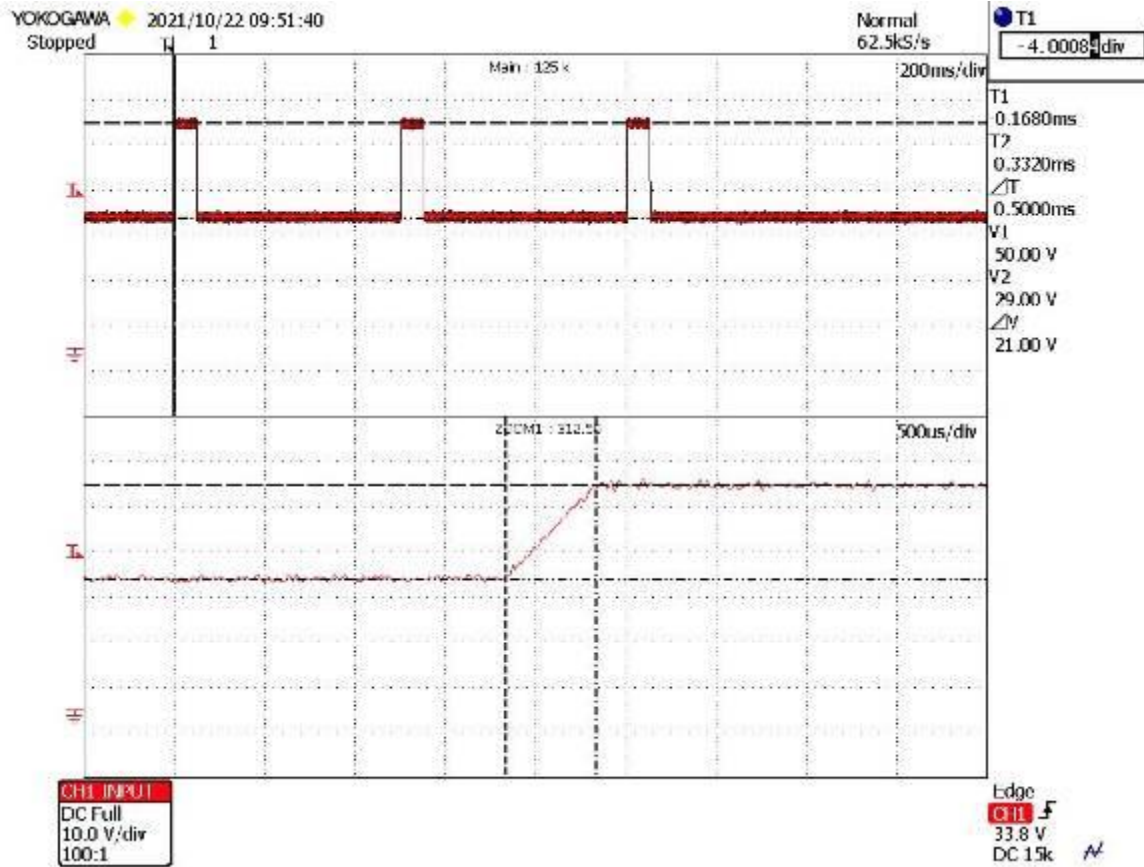


Figure I-18: Condition CCC, 3 times every 0.5 sec, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

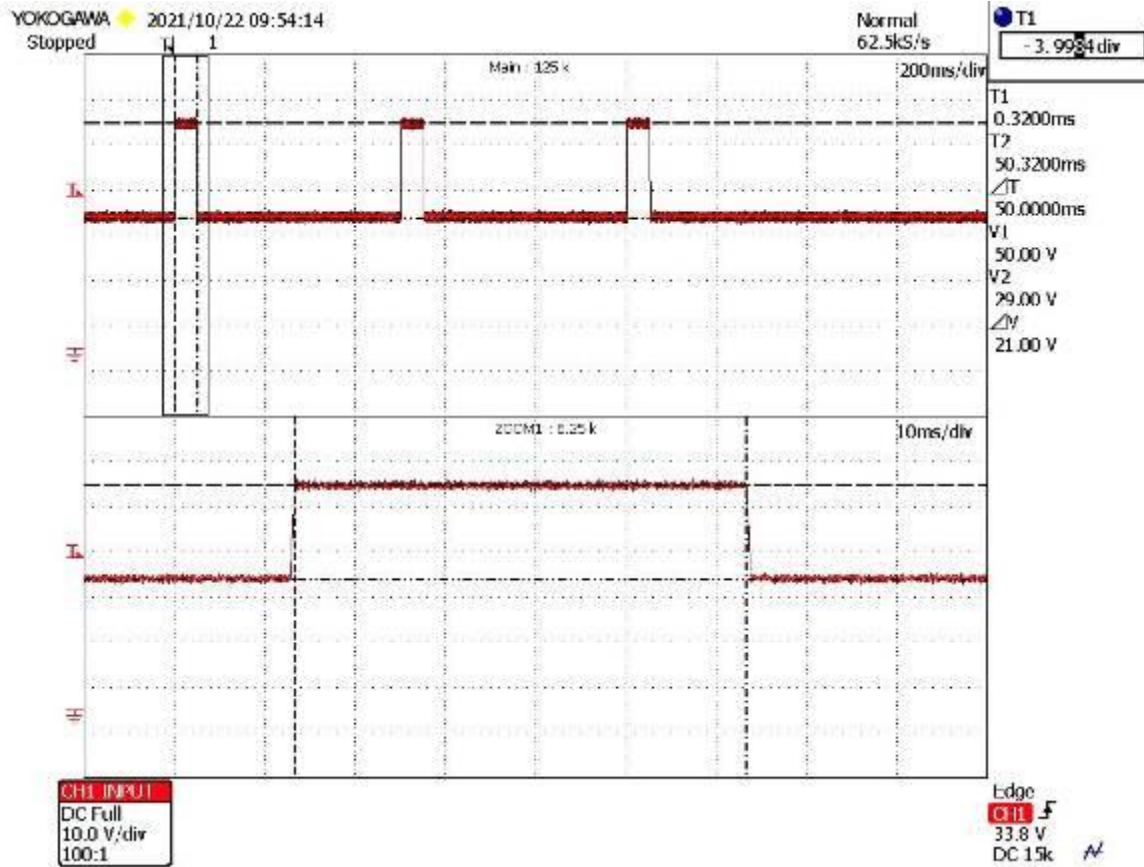


Figure I-19: Condition CCC, 3 times every 0.5 sec, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

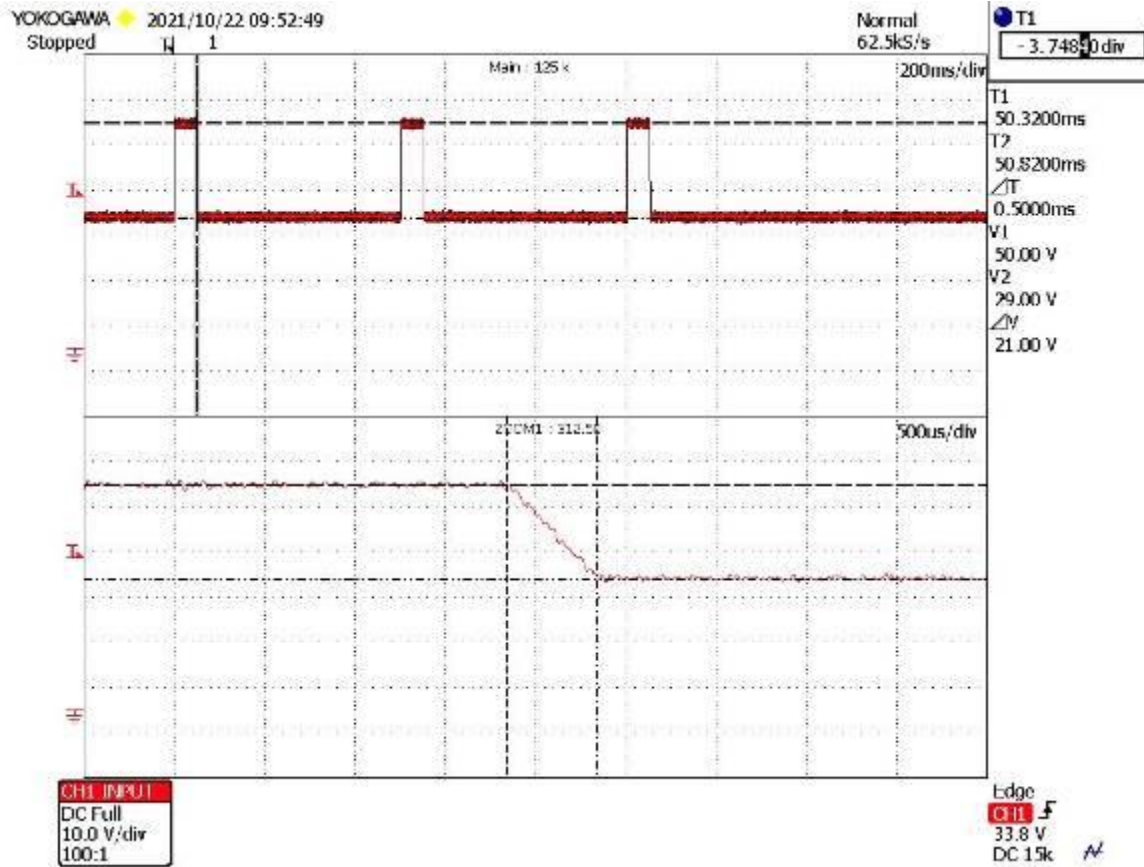


Figure I-20: Condition CCC, 3 times every 0.5 sec, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

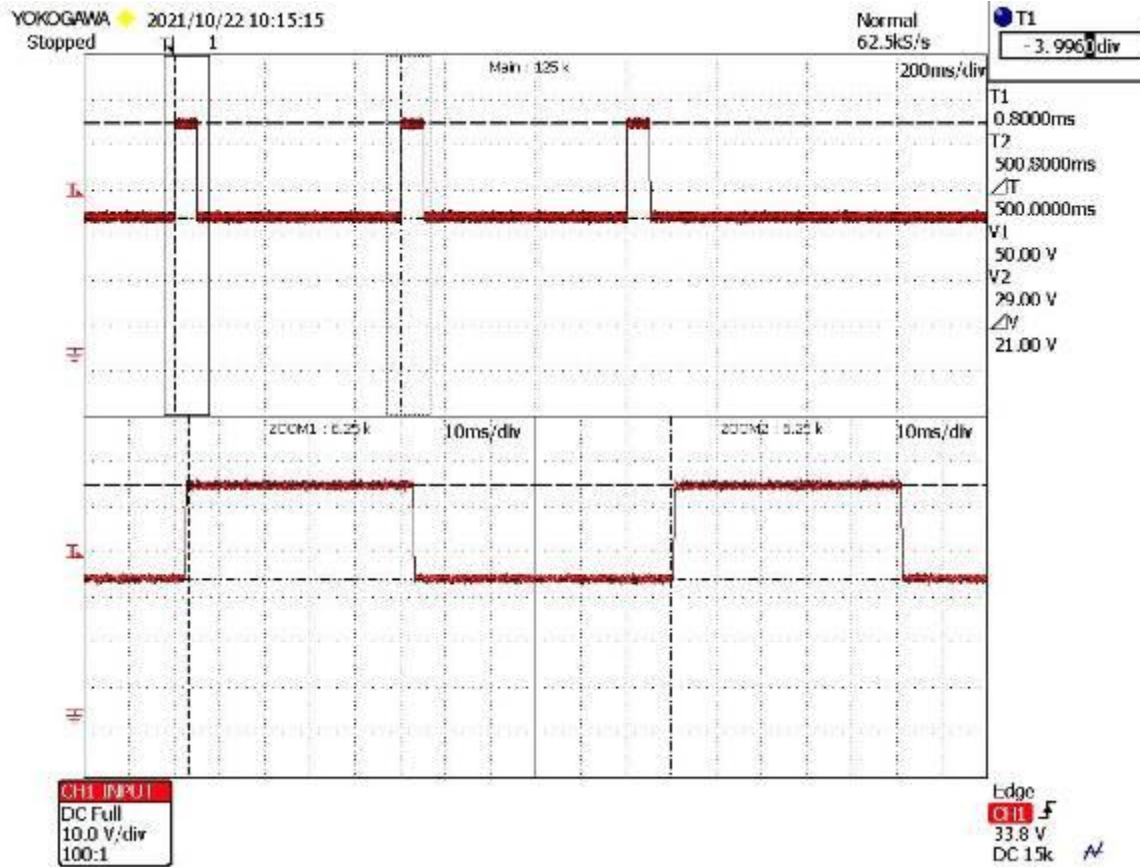


Figure I-21: Condition CCC, 3 times every 0.5 sec, waveform verification, first transient to second transient delay

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-22: Condition CCC, 3 times every 0.5 sec, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

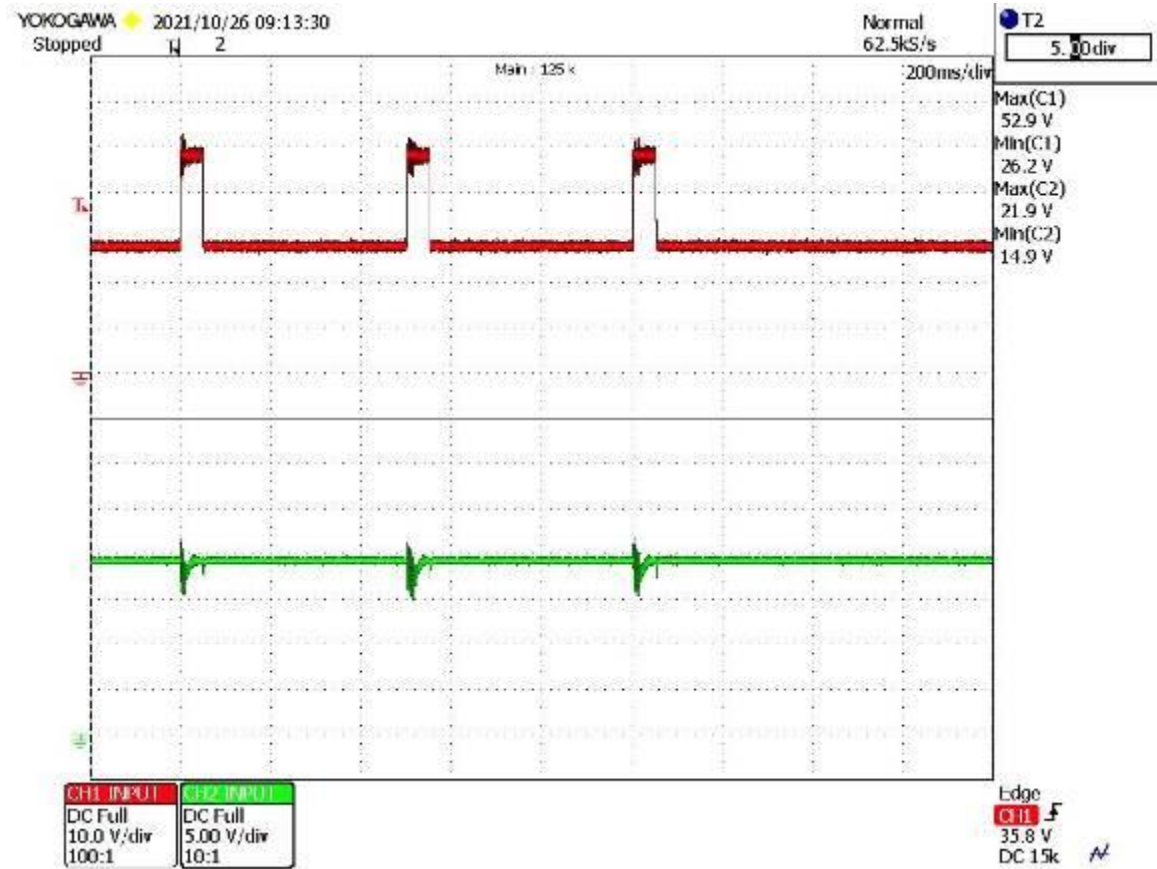


Figure I-23: Condition CCC, 3 times every 0.5 sec, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

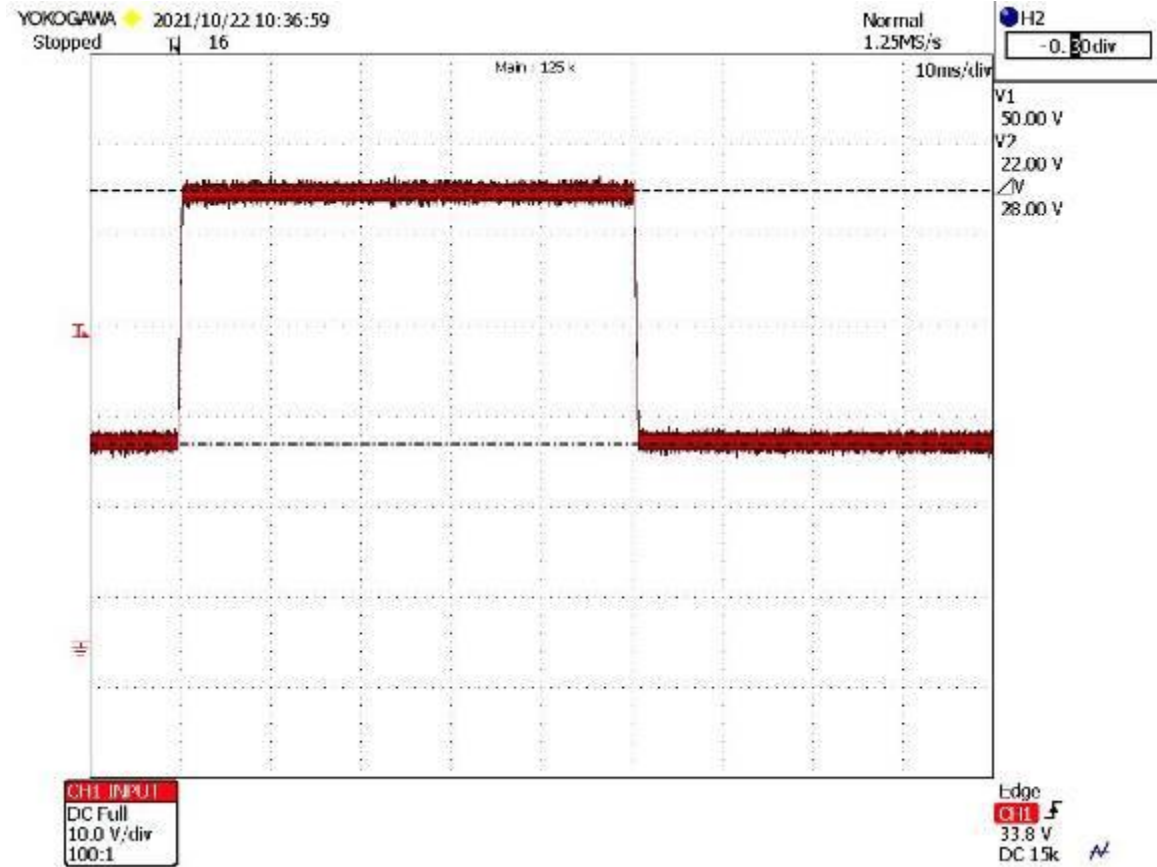


Figure I-24: Condition DDD, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

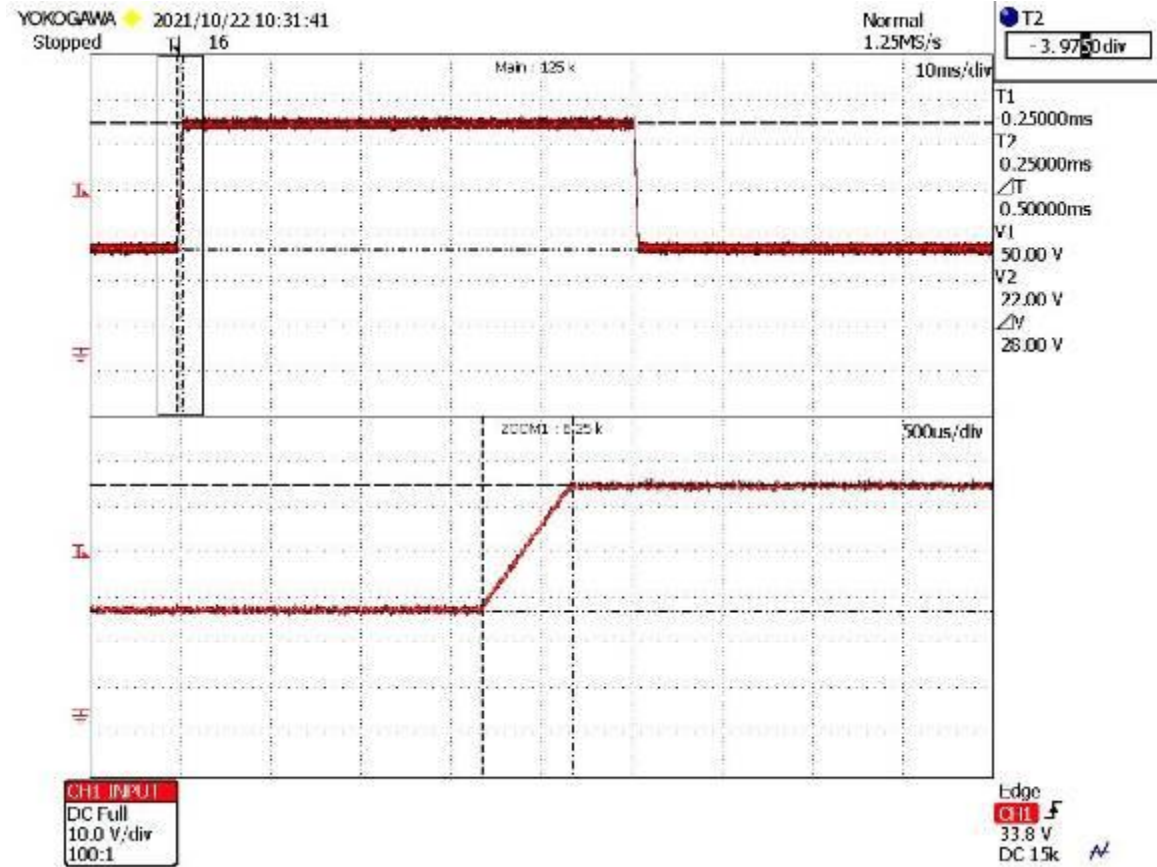


Figure I-25: Condition DDD, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

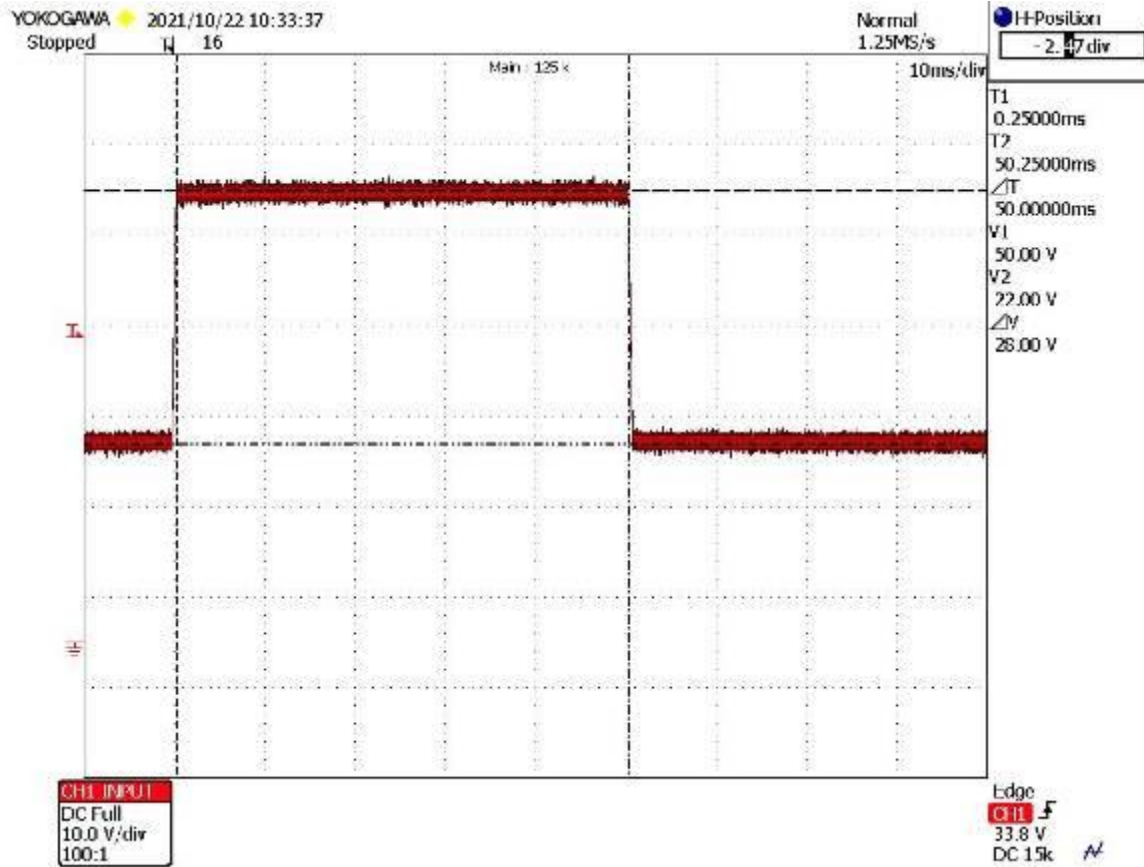


Figure I-26: Condition DDD, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

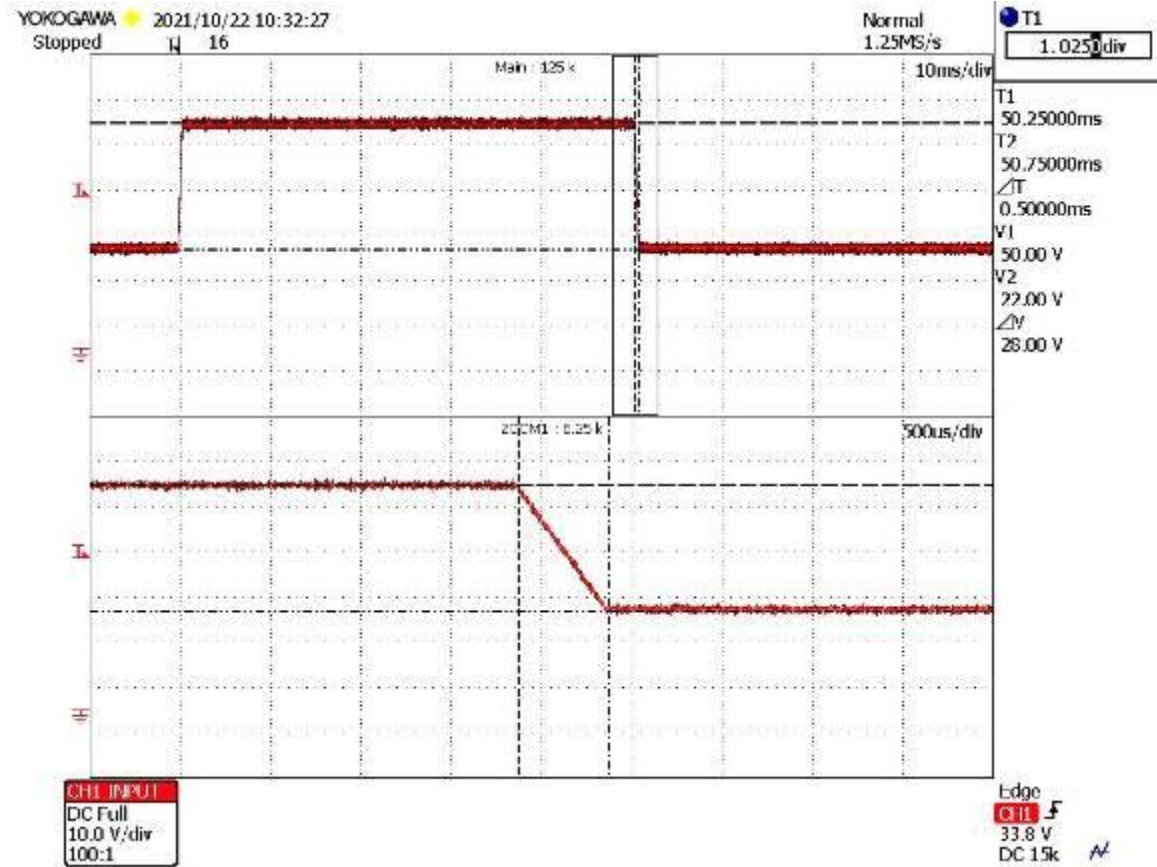


Figure I-27: Condition DDD, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

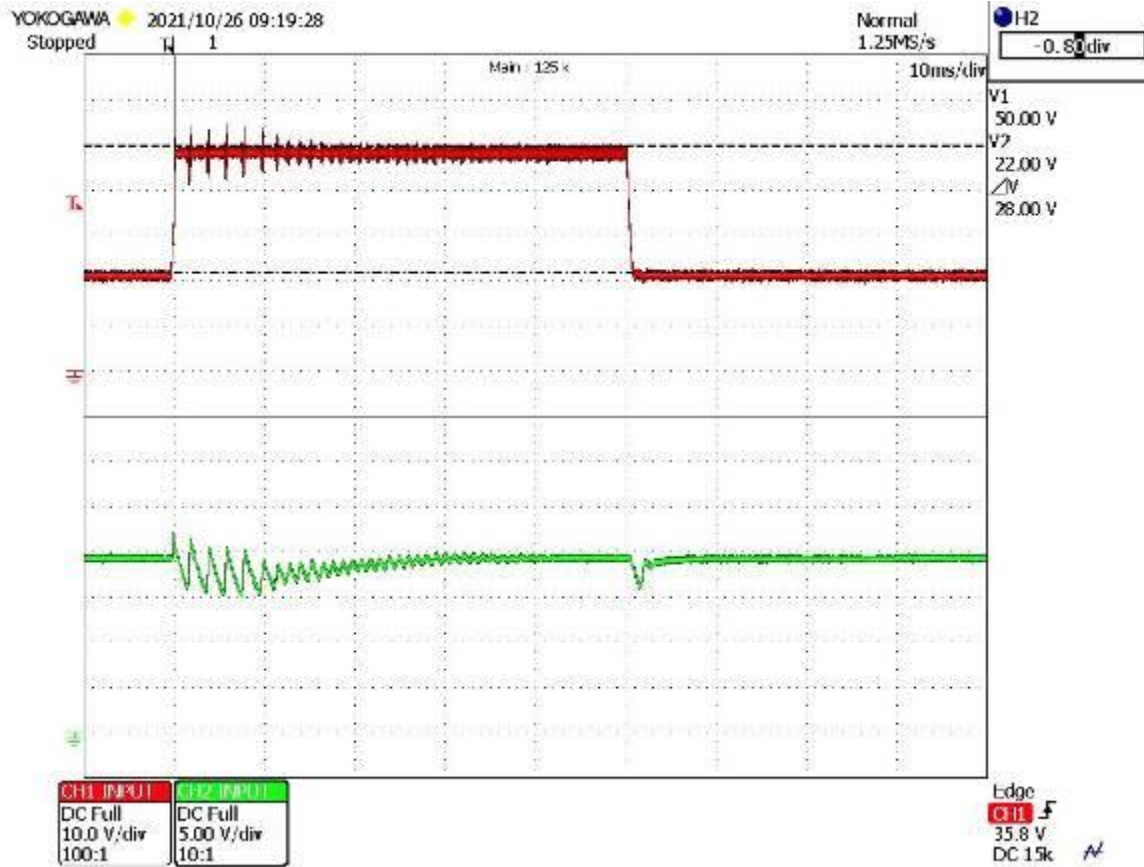


Figure I-28: Condition DDD, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

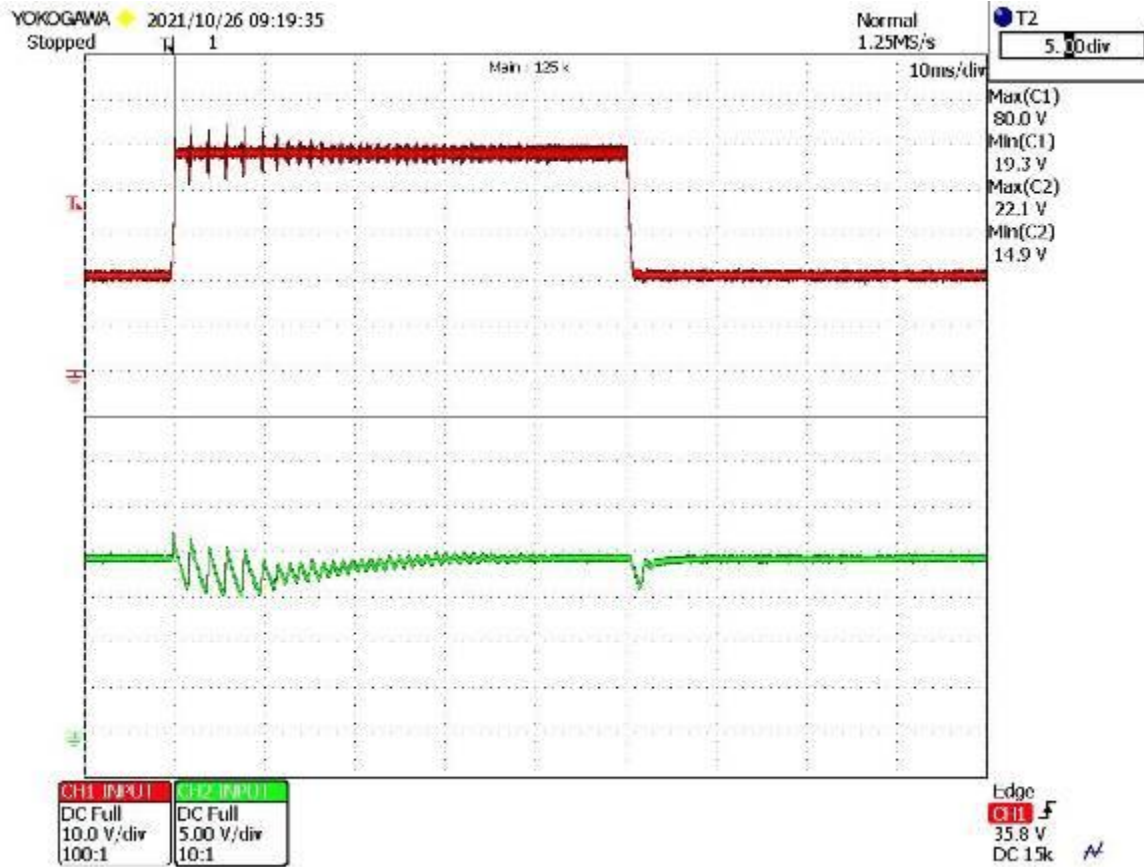


Figure I-29: Condition DDD, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

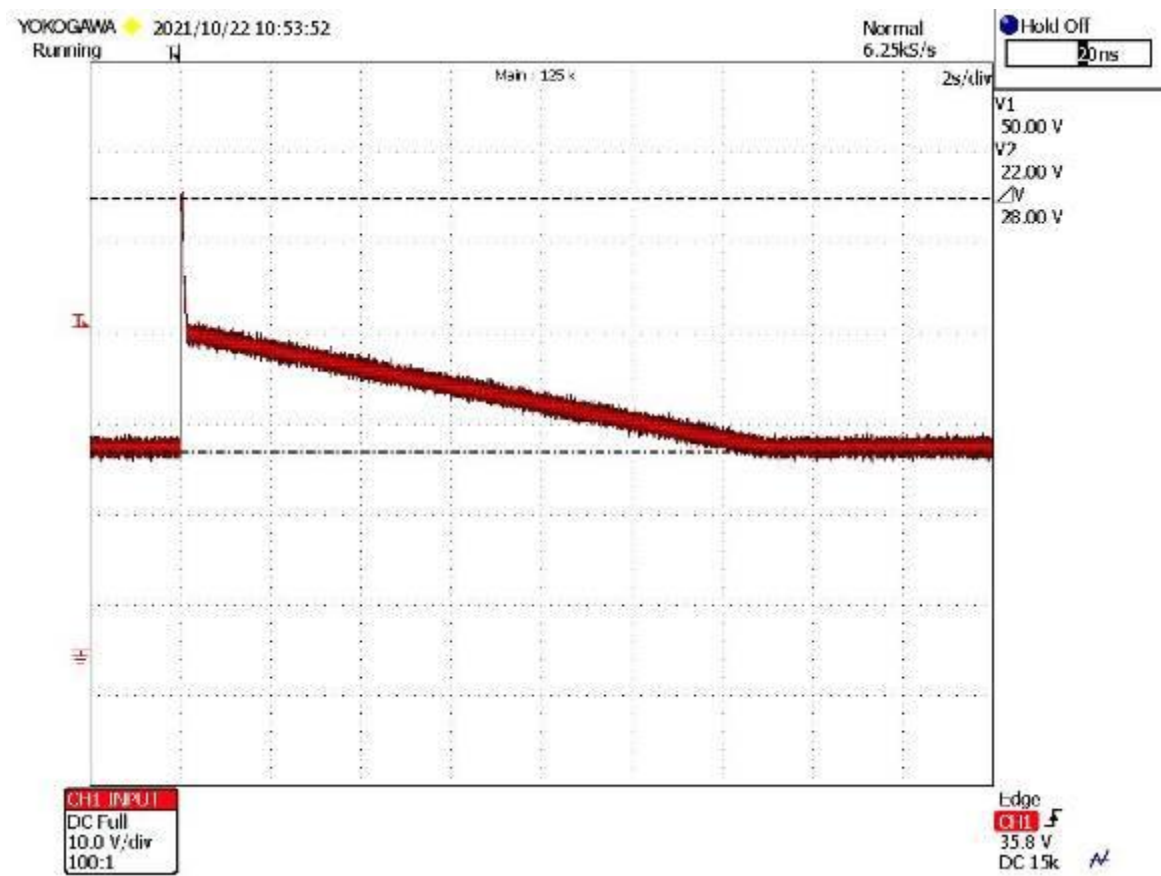


Figure I-30: Condition EEE, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

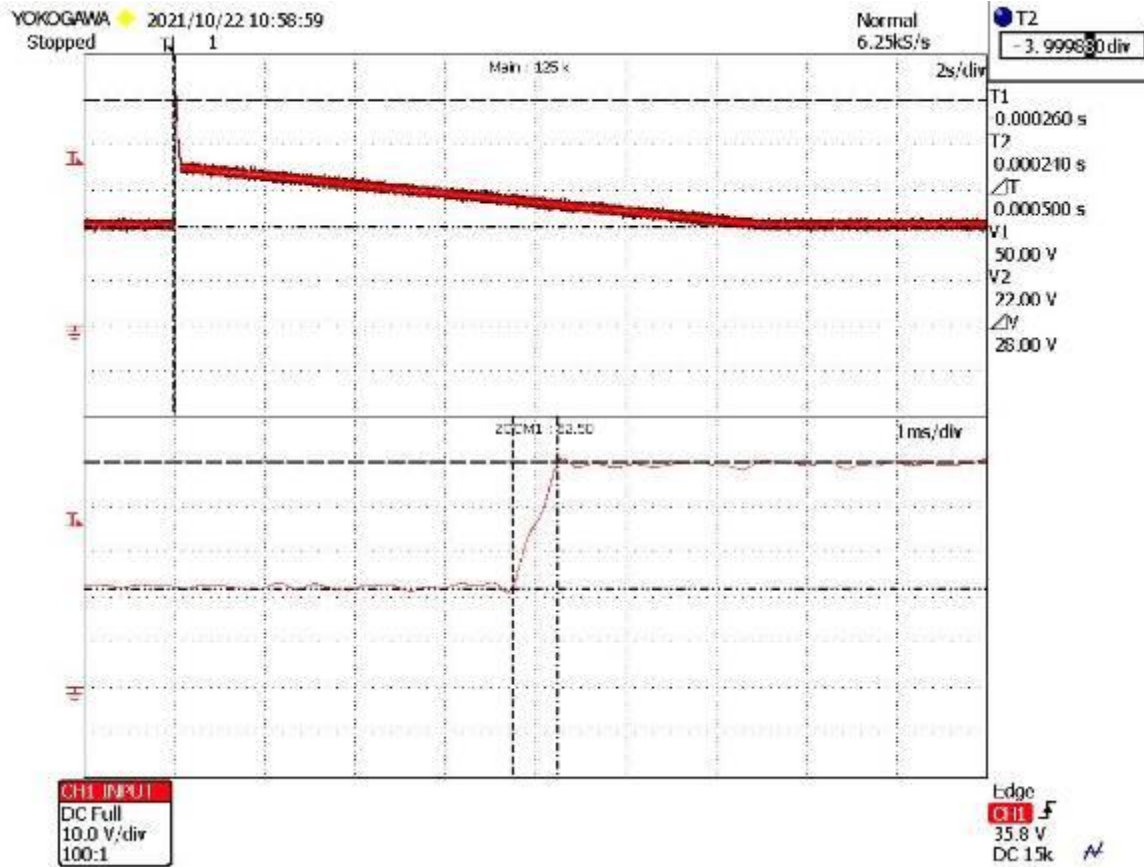


Figure I-31: Condition EEE, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

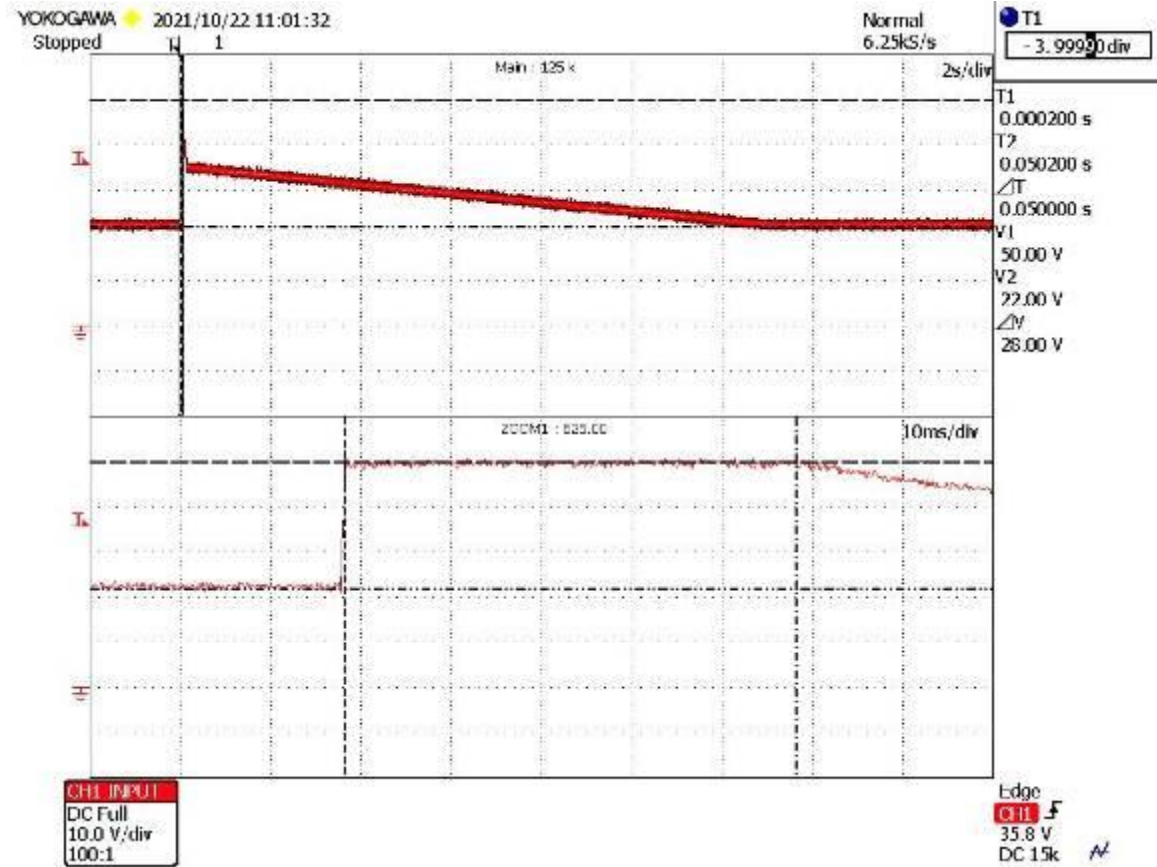


Figure I-32: Condition EEE, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

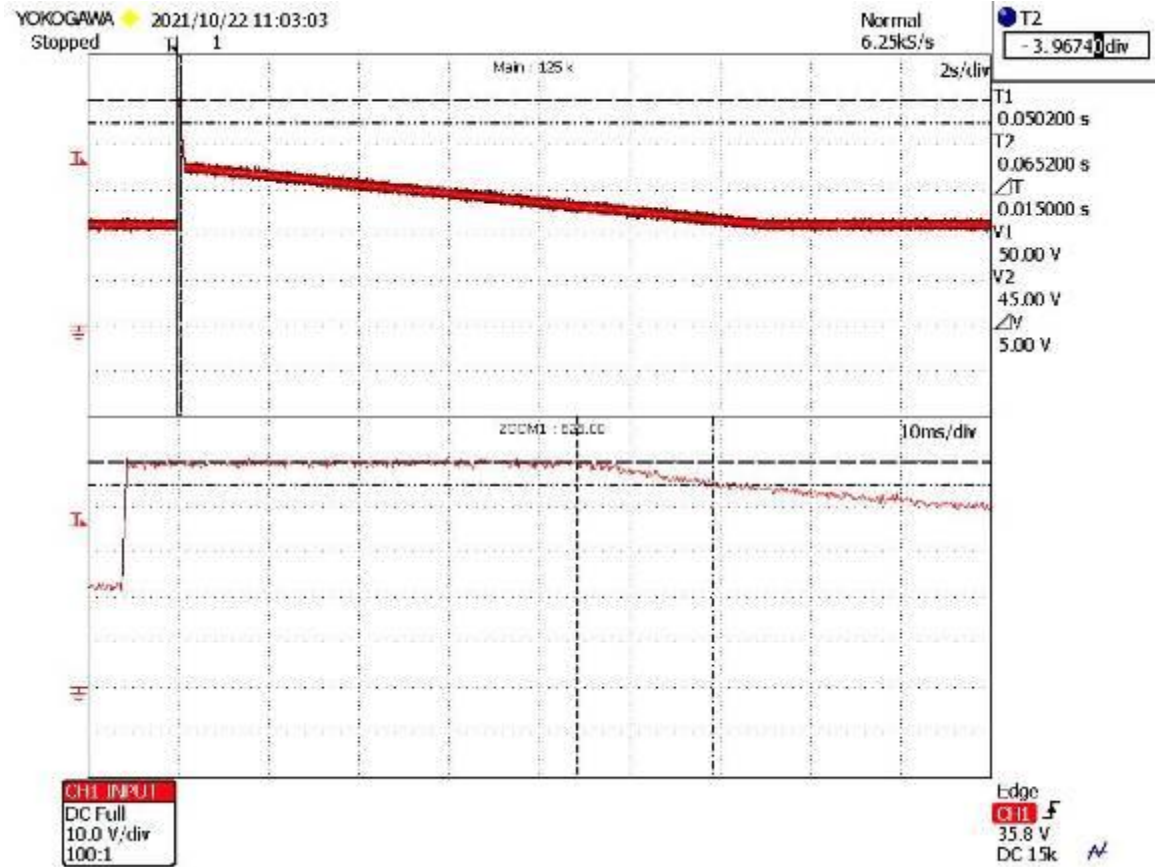


Figure I-33: Condition EEE, waveform verification, first transient to second transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

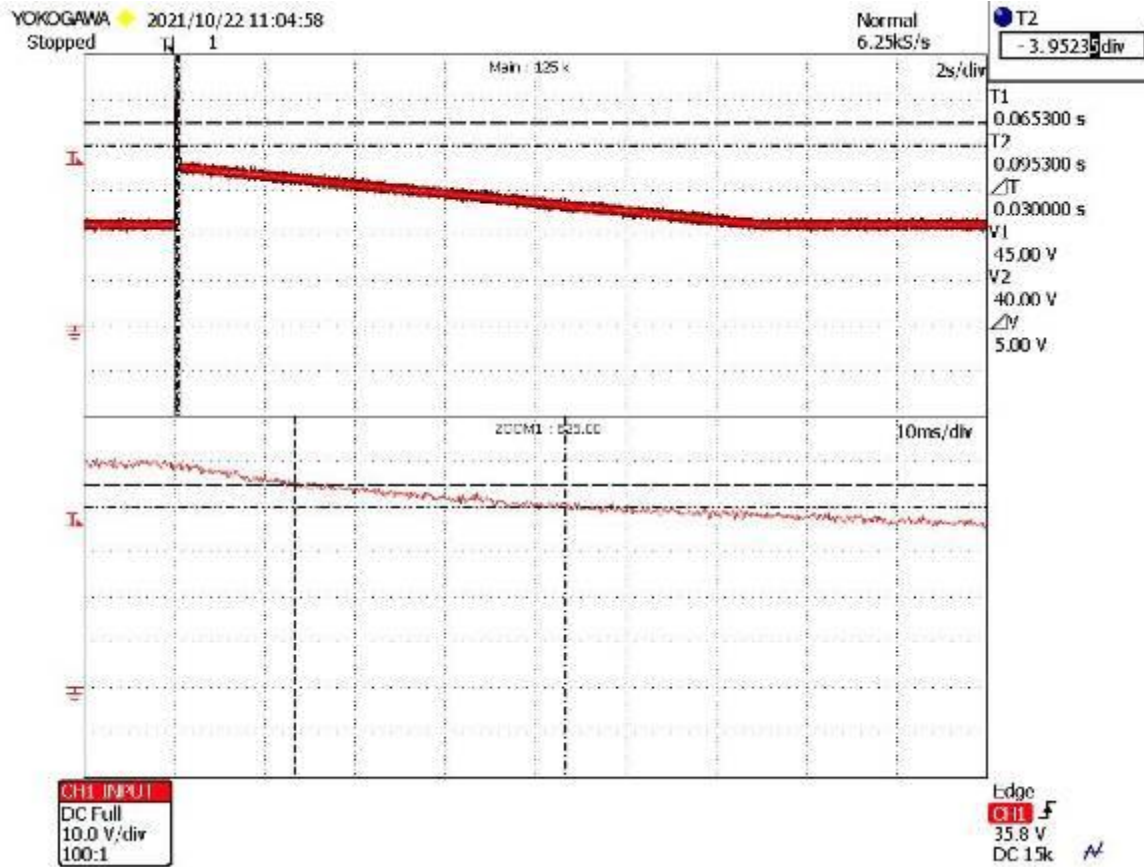


Figure I-34: Condition EEE, waveform verification, second transient to third transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

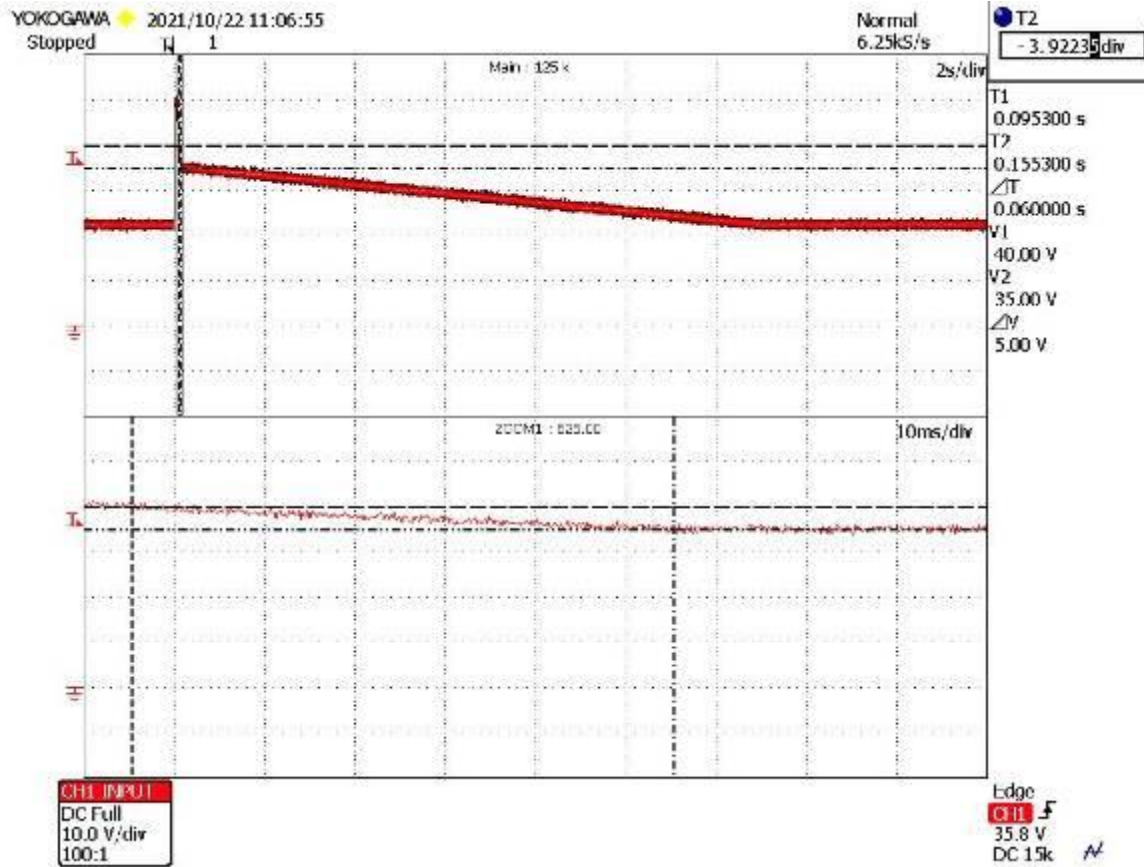


Figure I-35: Condition EEE, waveform verification, third transient to fourth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

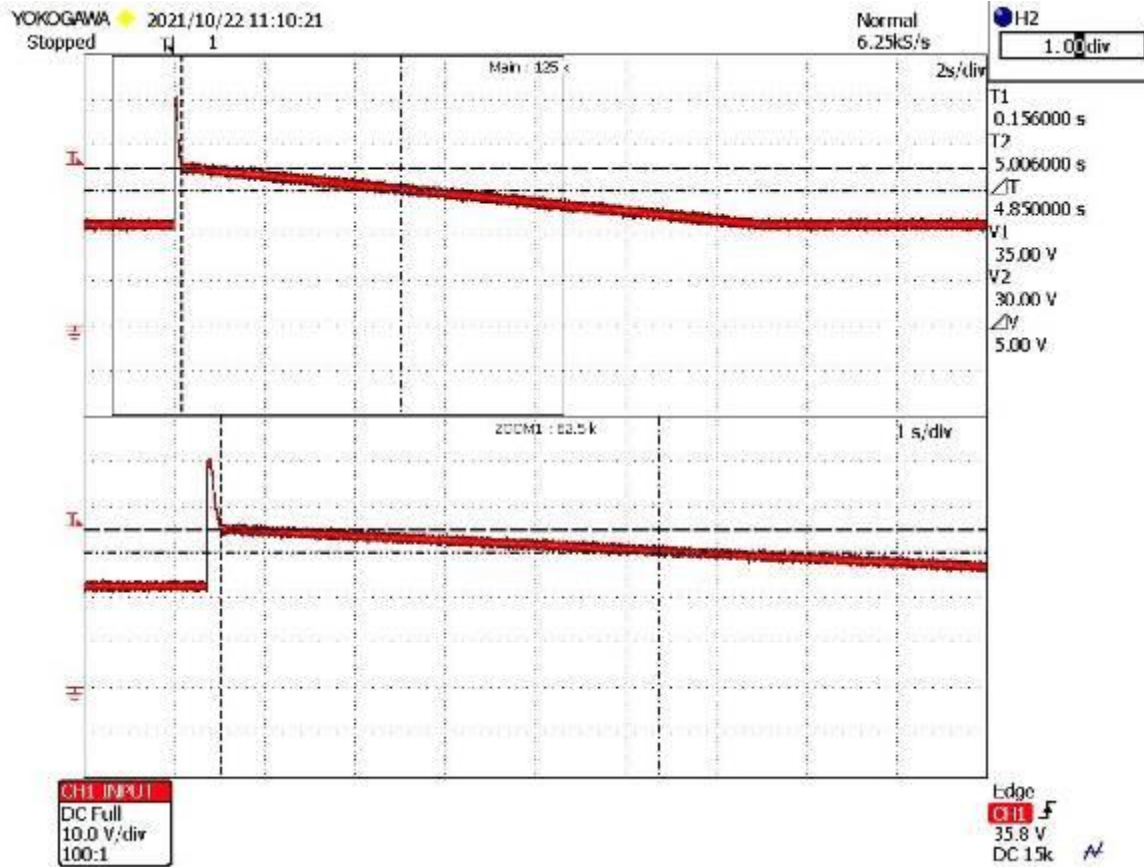


Figure I-36: Condition EEE, waveform verification, fourth transient to fifth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

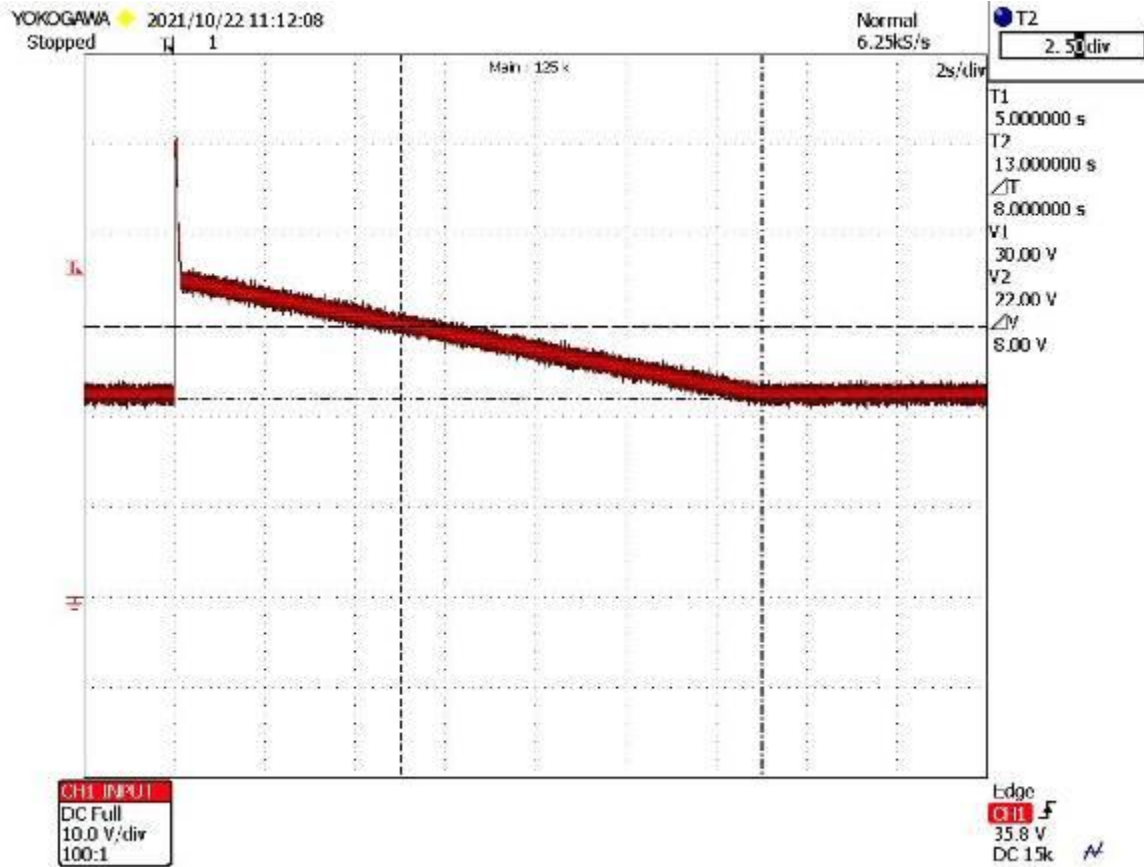


Figure I-37: Condition EEE, waveform verification, fifth transient to steady state fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

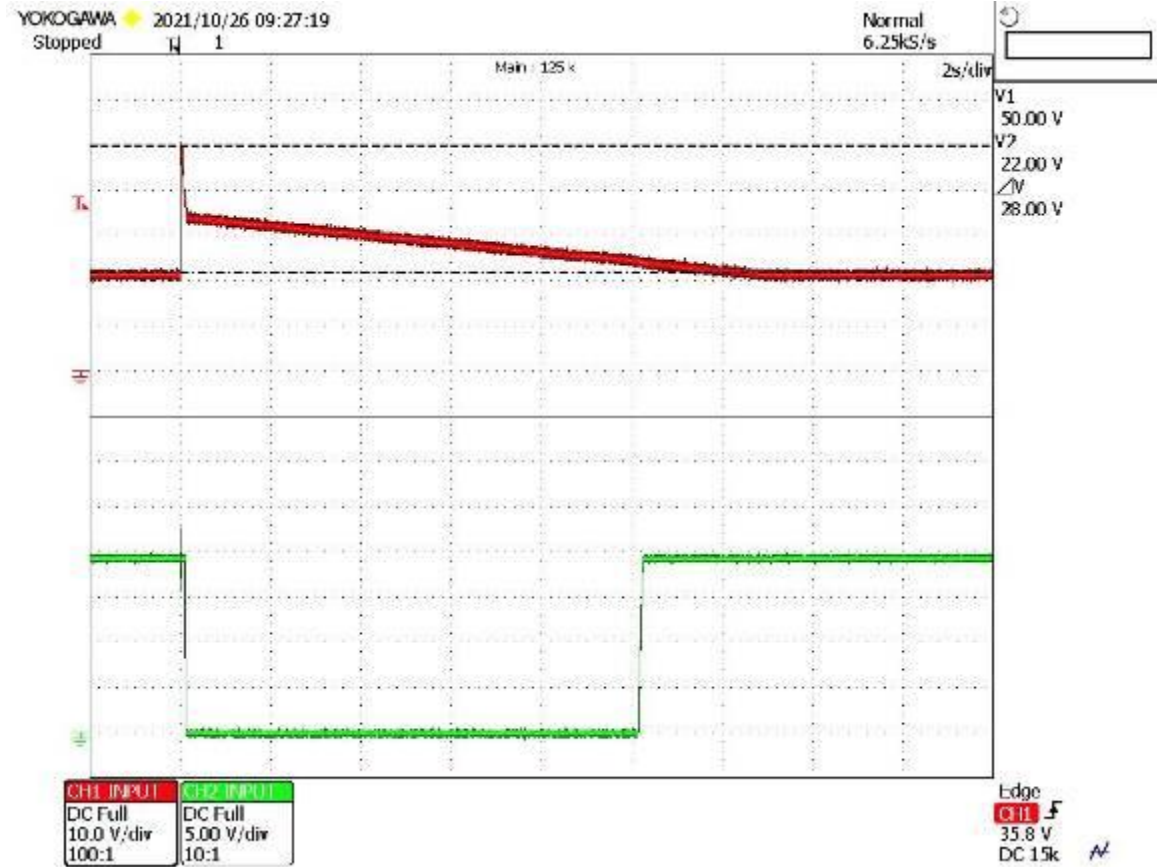


Figure I-38: Condition EEE, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

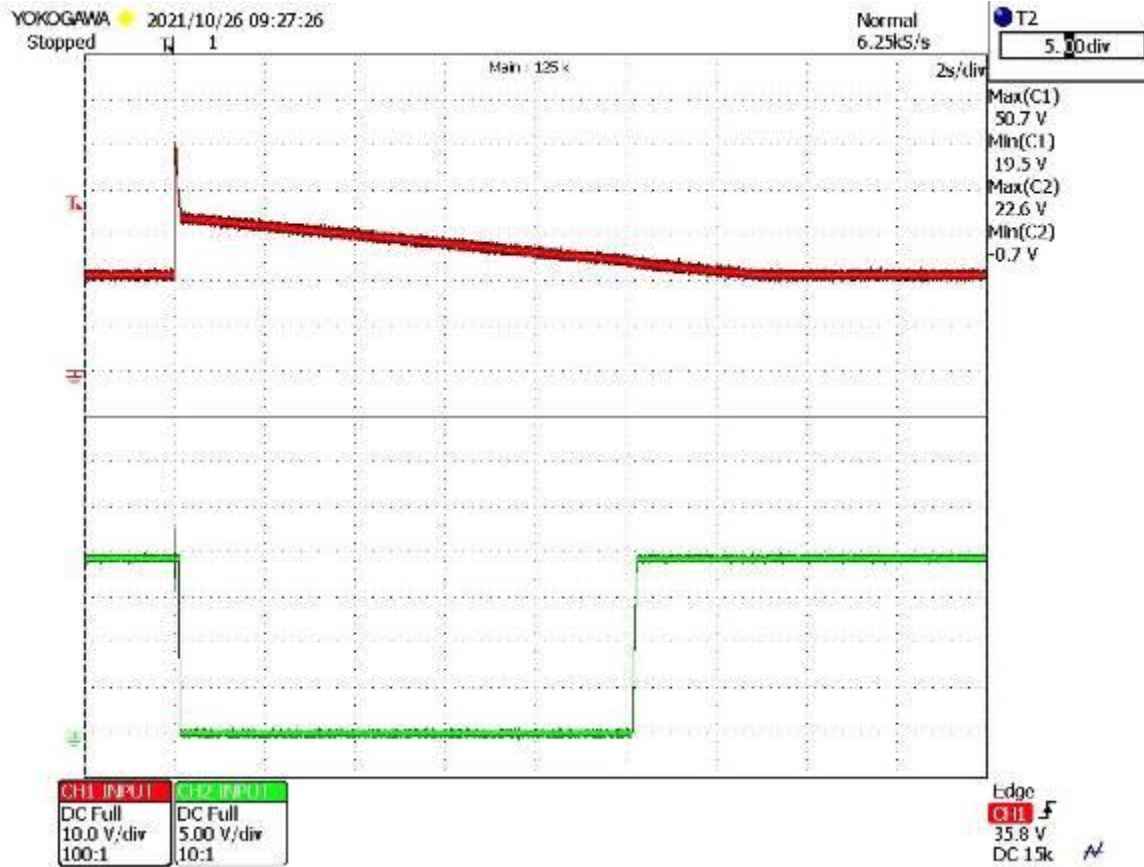


Figure I-39: Condition EEE, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

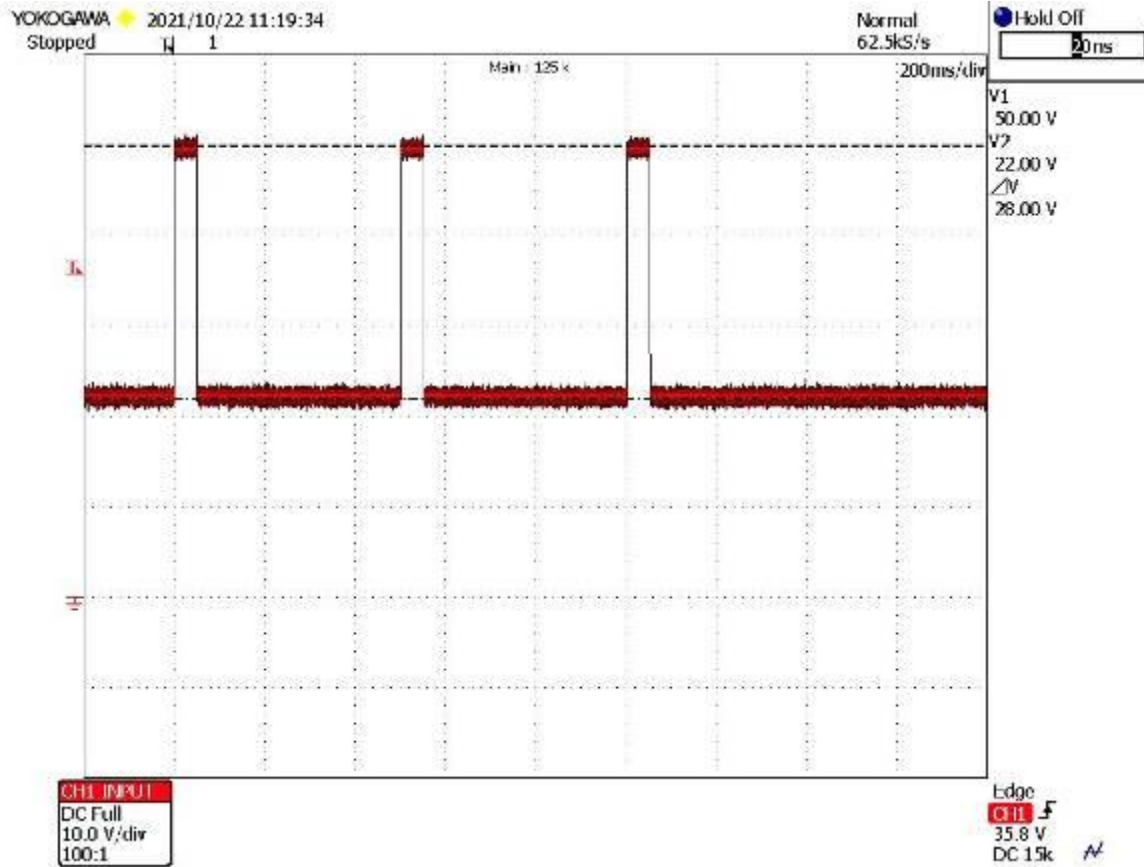


Figure I-40: Condition FFF, 3 times every 0.5 sec, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

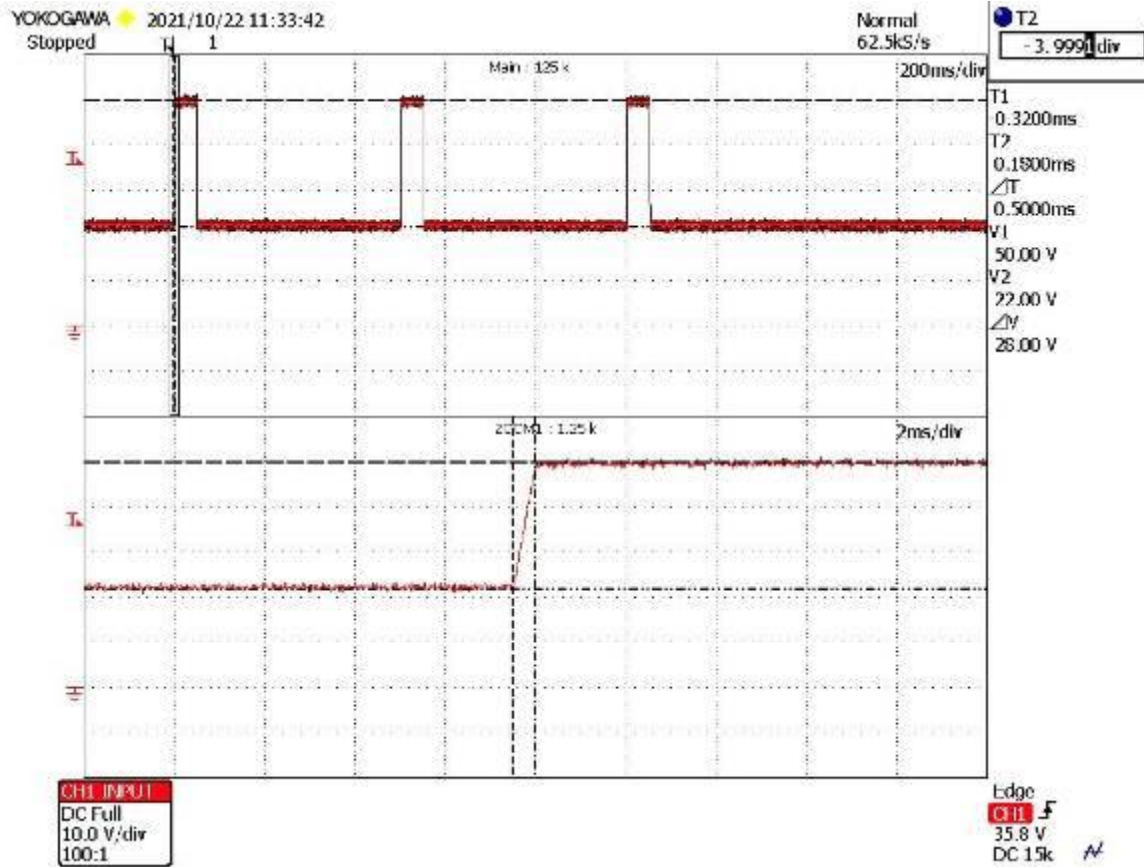


Figure I-41: Condition FFF, 3 times every 0.5 sec, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

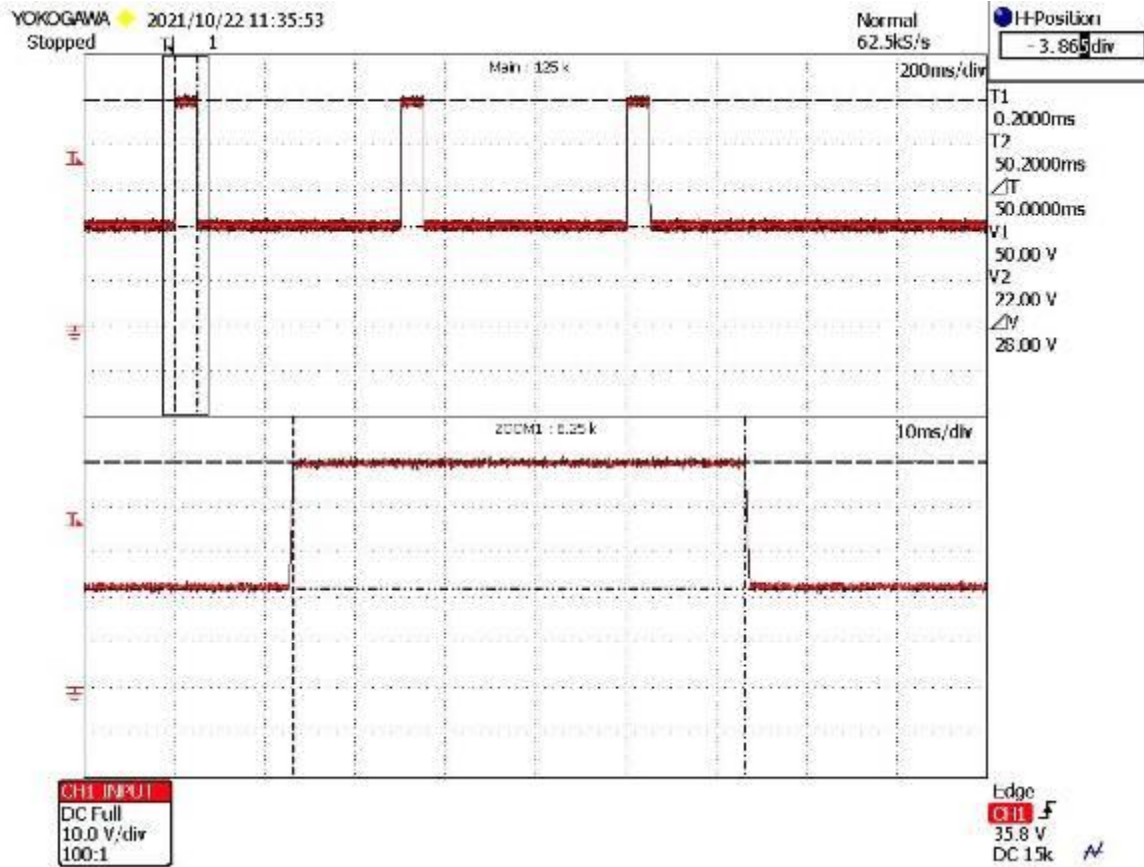


Figure I-42: Condition FFF, 3 times every 0.5 sec, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

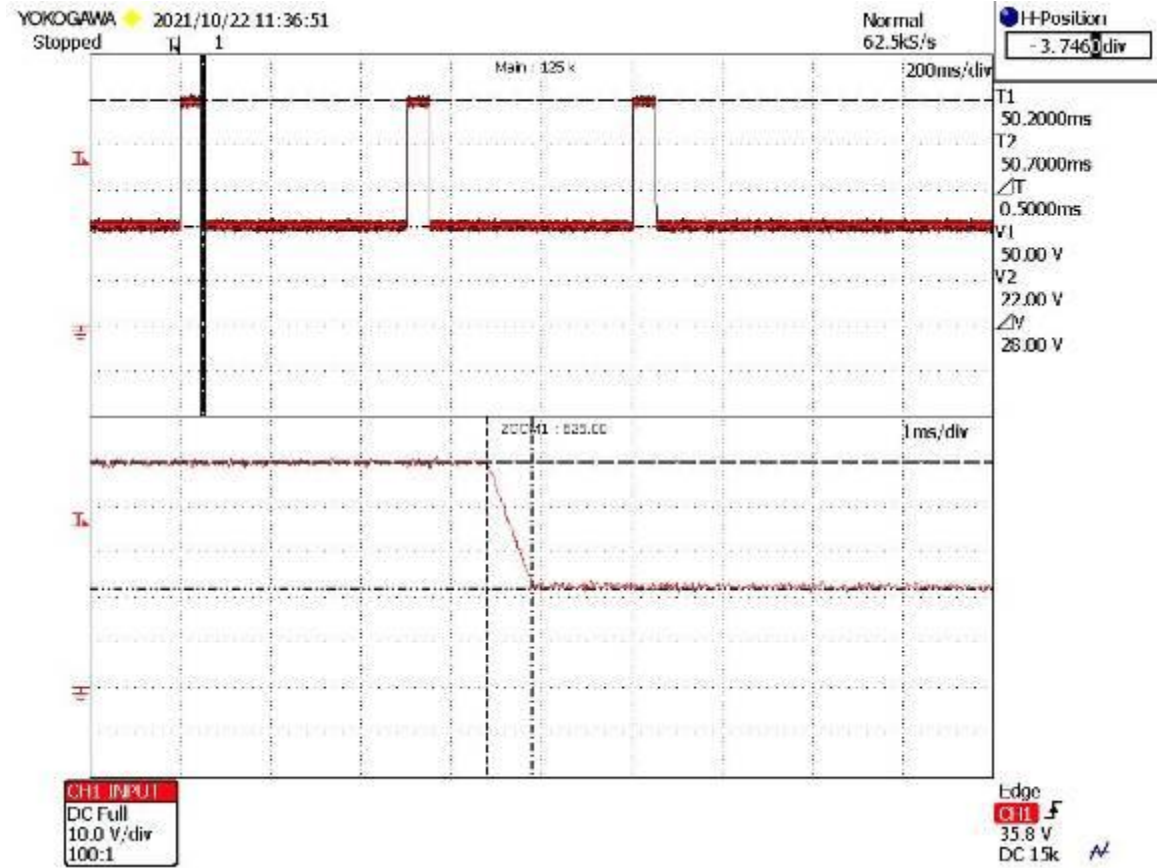


Figure I-43: Condition FFF, 3 times every 0.5 sec, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

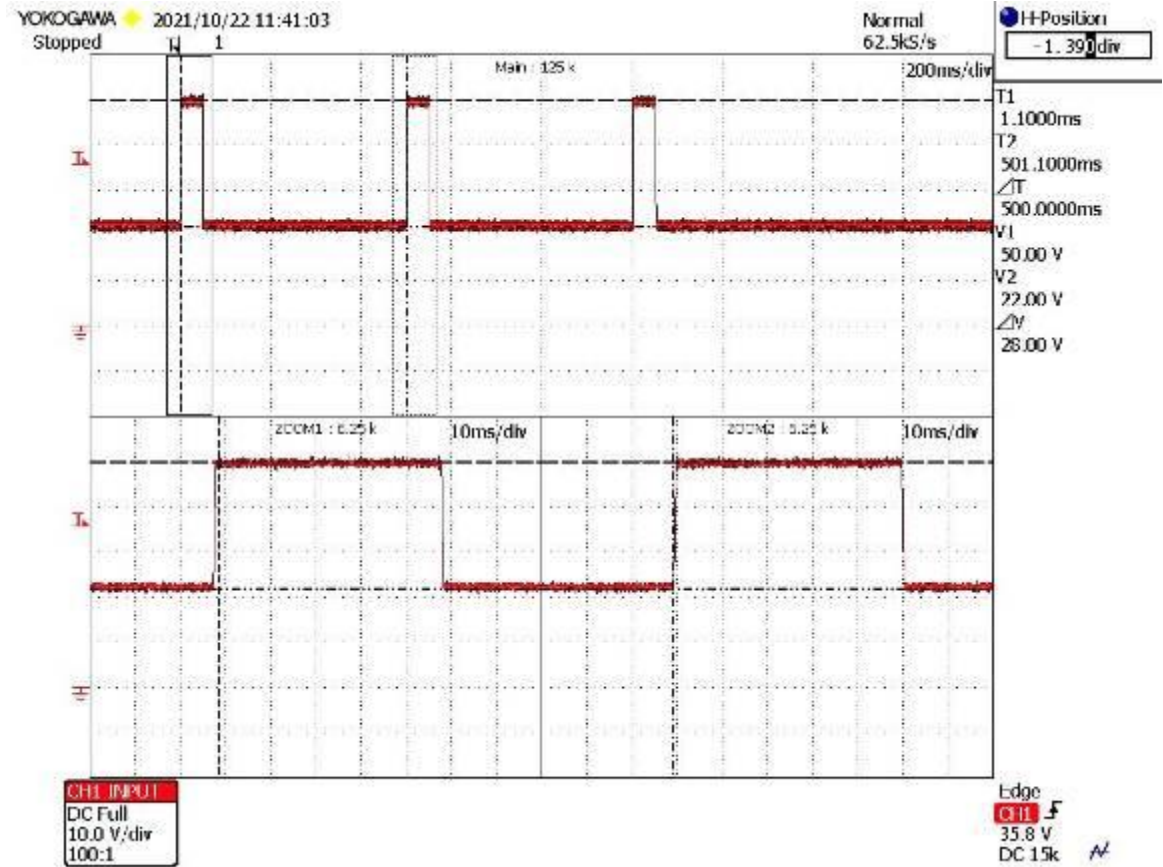


Figure I-44: Condition FFF, 3 times every 0.5 sec, waveform verification, first transient to second transient delay

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-45: Condition FFF, 3 times every 0.5 sec, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-46: Condition FFF, 3 times every 0.5 sec, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

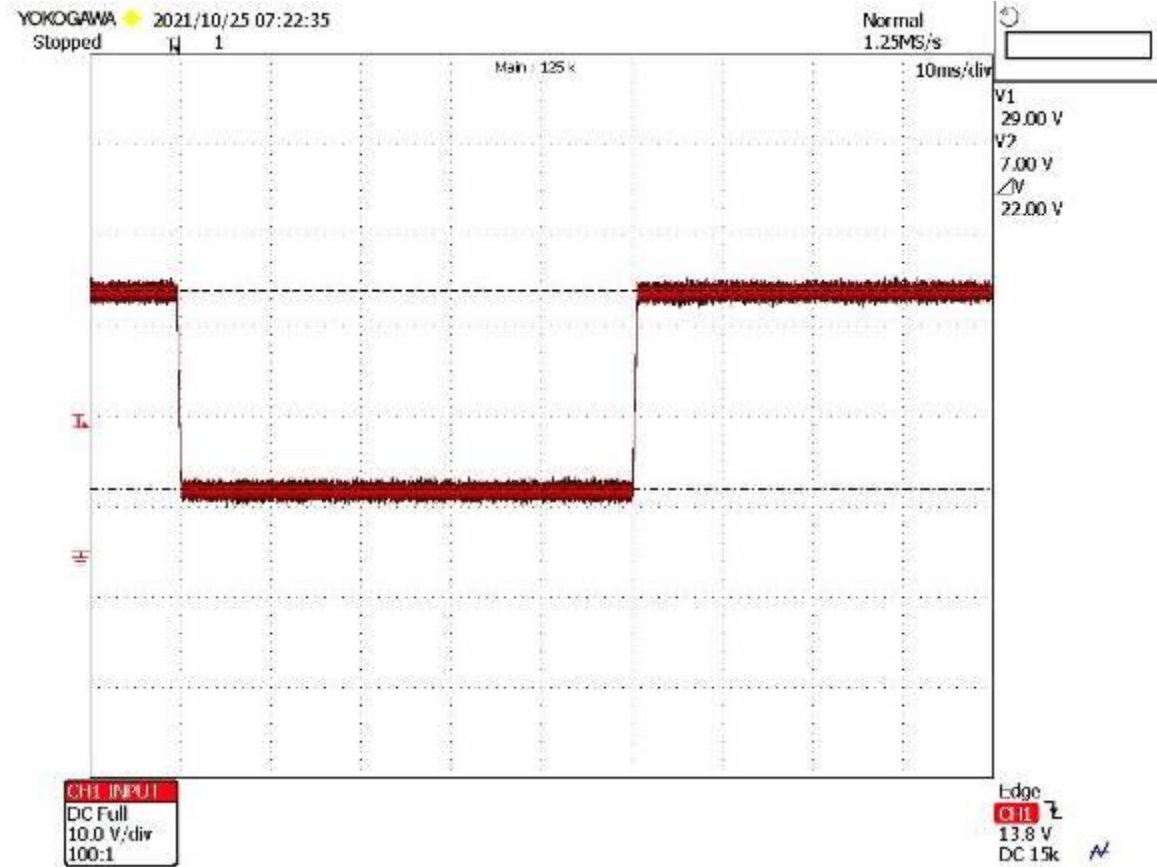


Figure I-47: Condition GGG, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

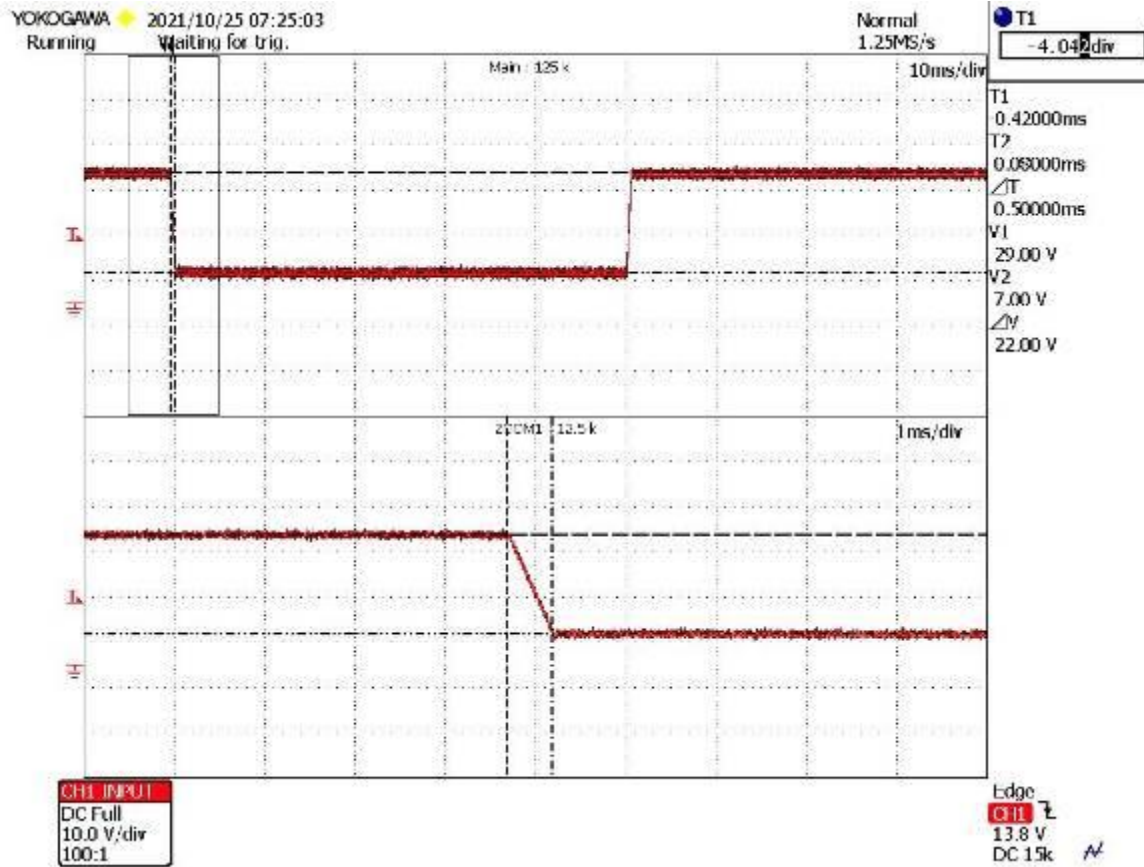


Figure I-48: Condition GGG, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

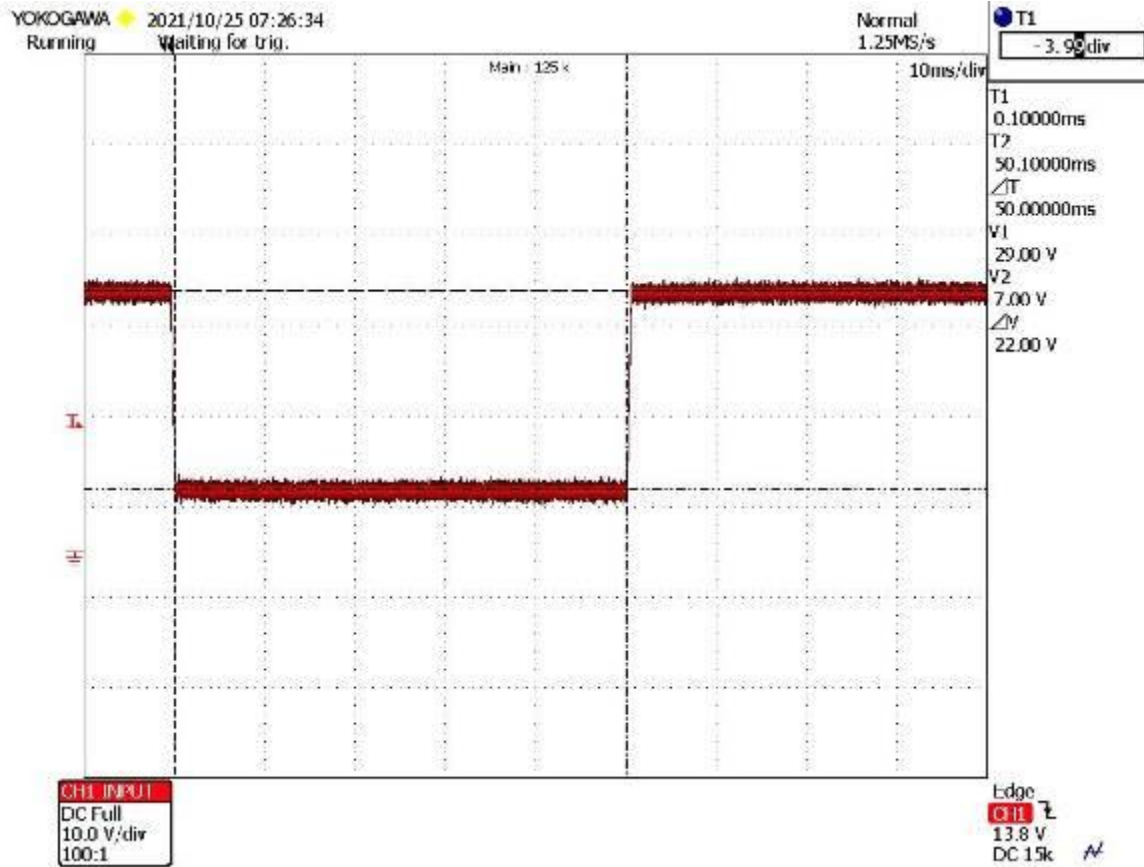


Figure I-49: Condition GGG, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

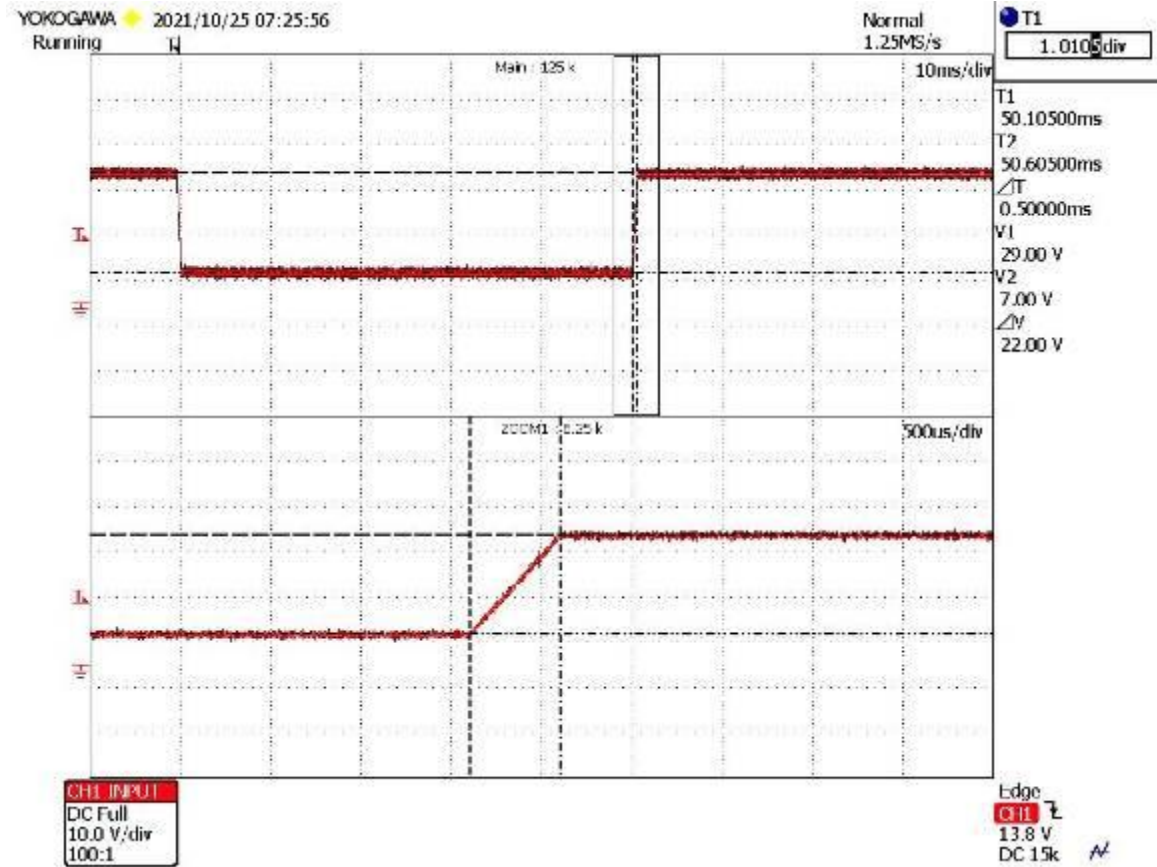


Figure I-50: Condition GGG, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

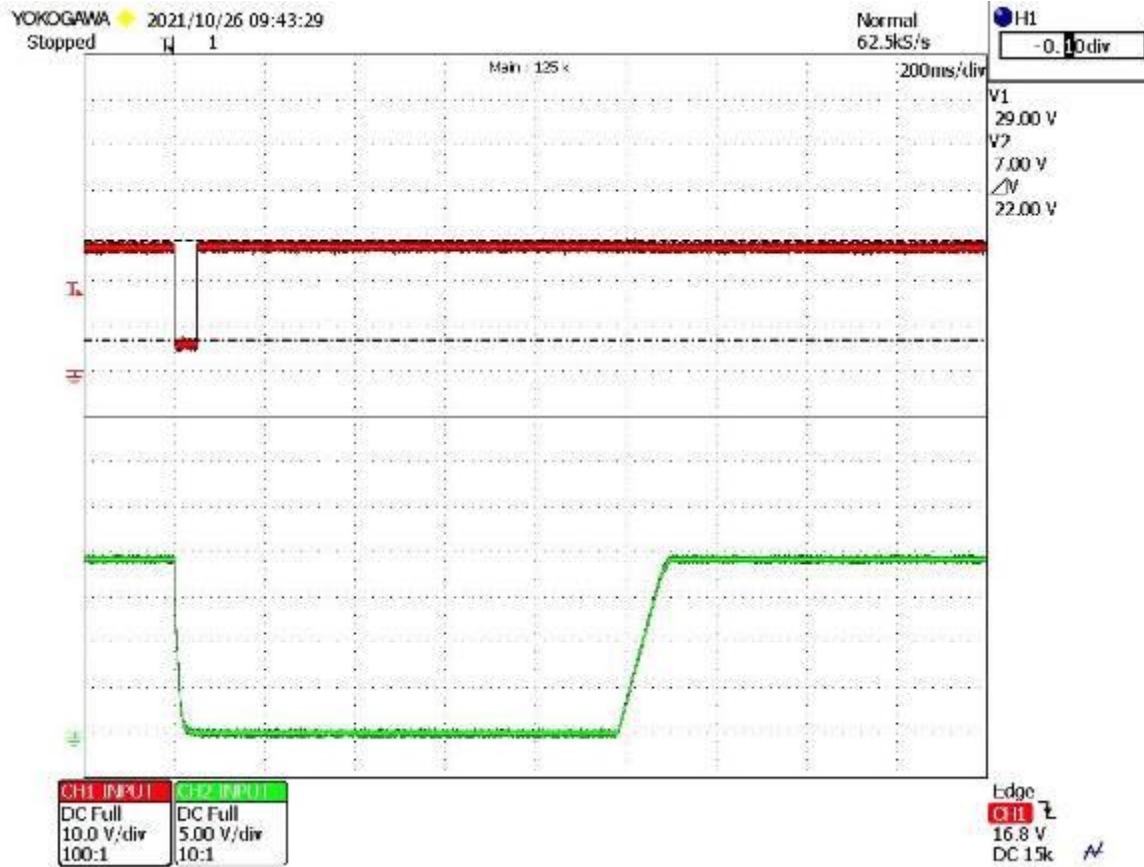


Figure I-51: Condition GGG, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

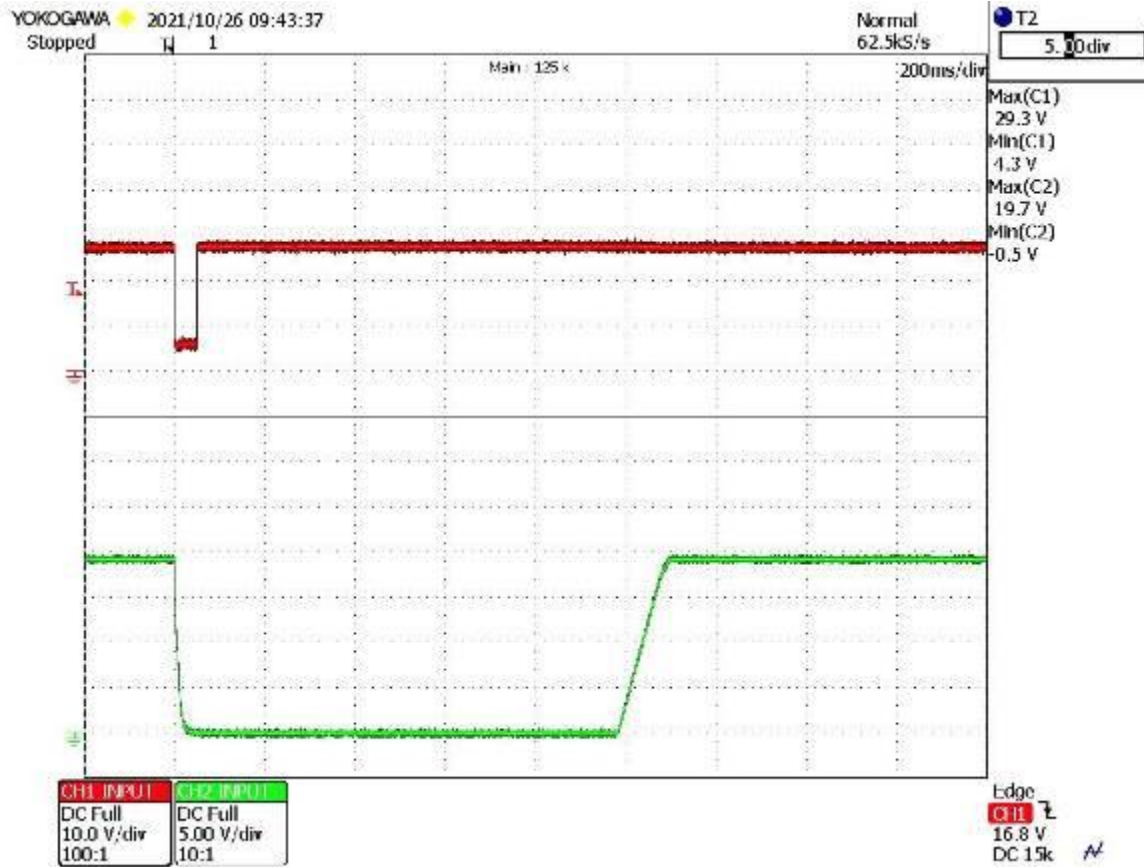


Figure I-52: Condition GGG, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

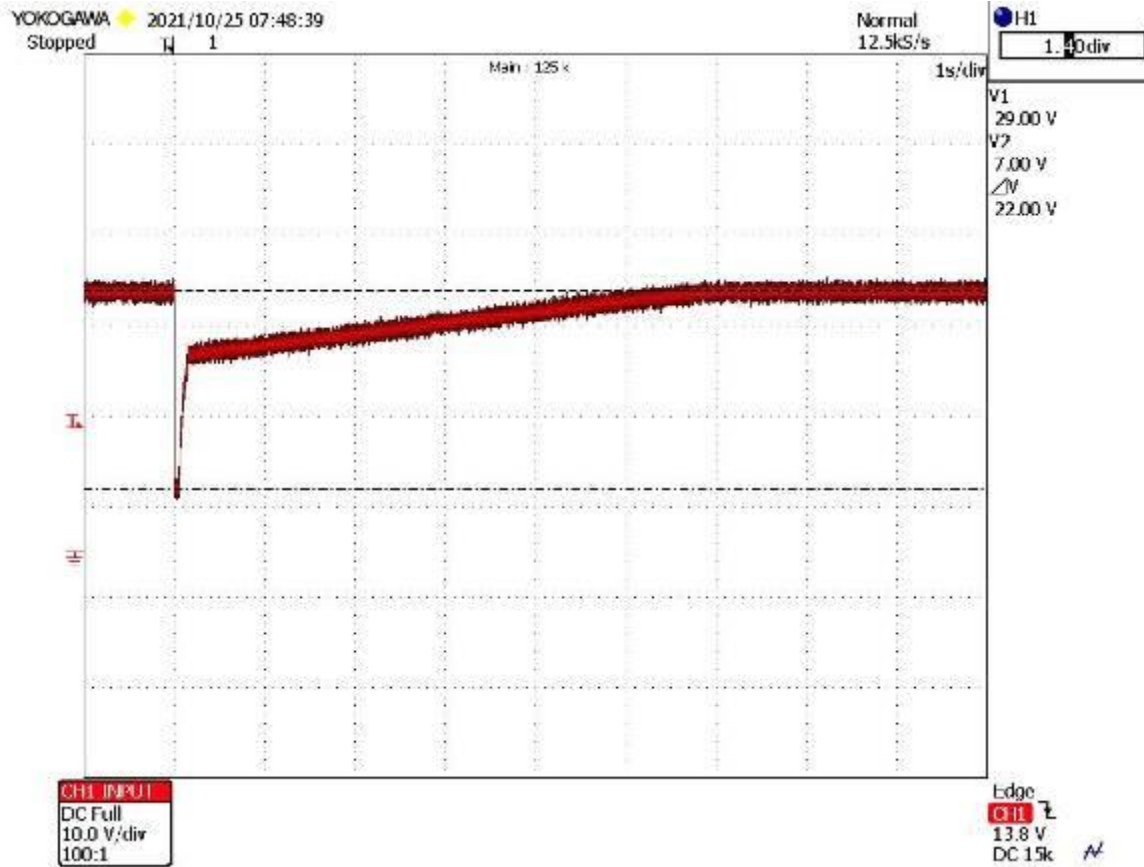


Figure I-53: Condition HHH, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

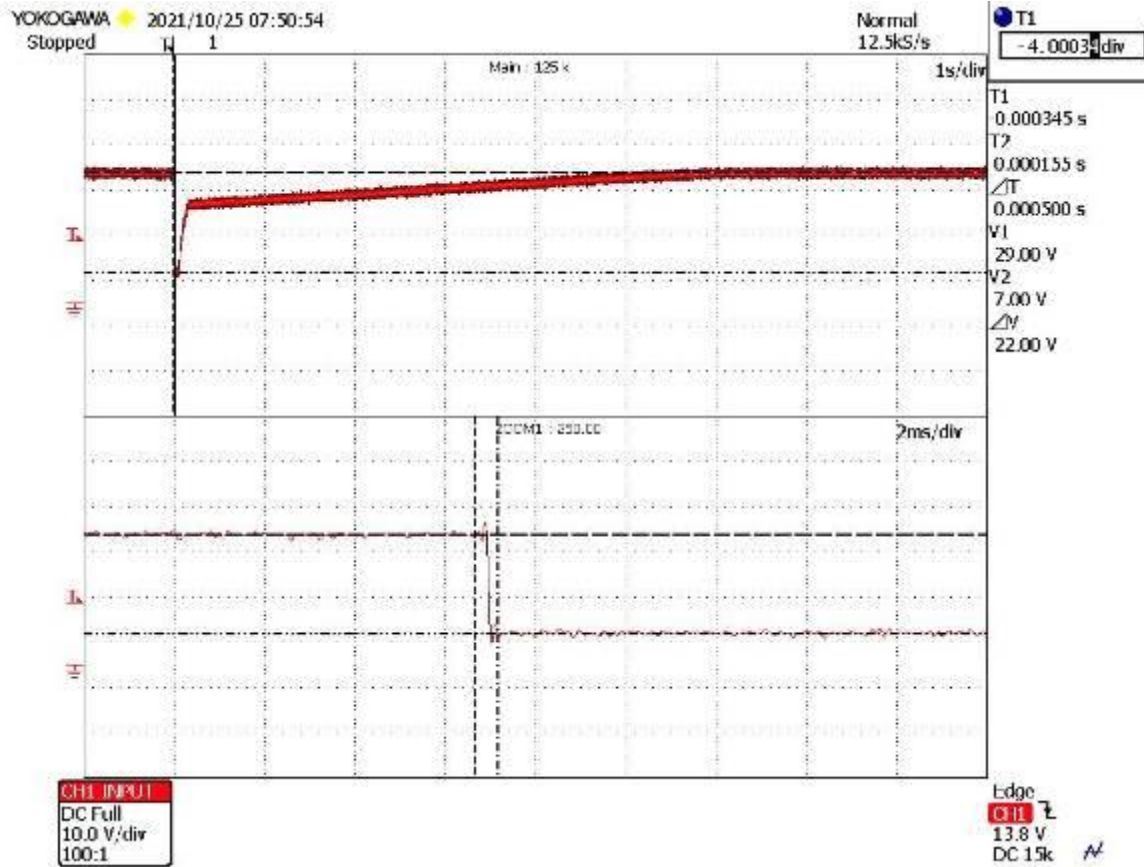


Figure I-54: Condition HHH, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

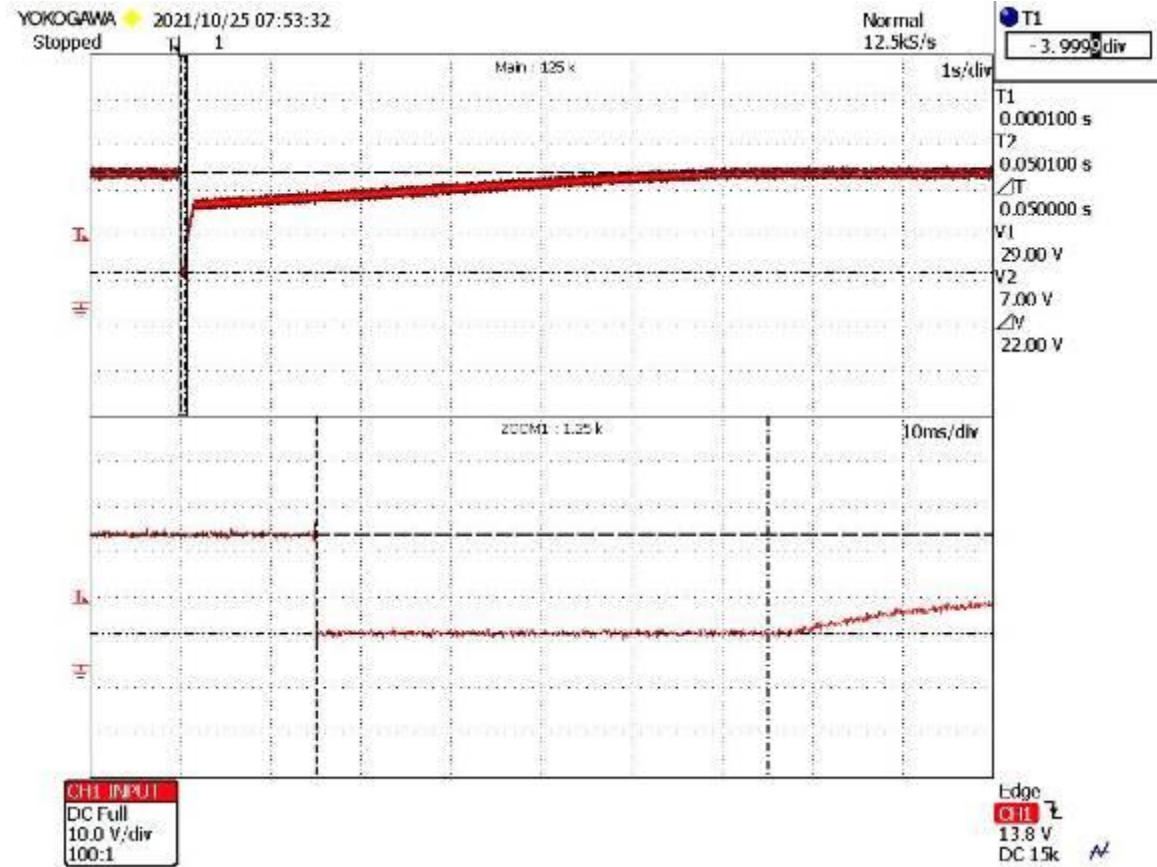


Figure I-55: Condition HHH, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

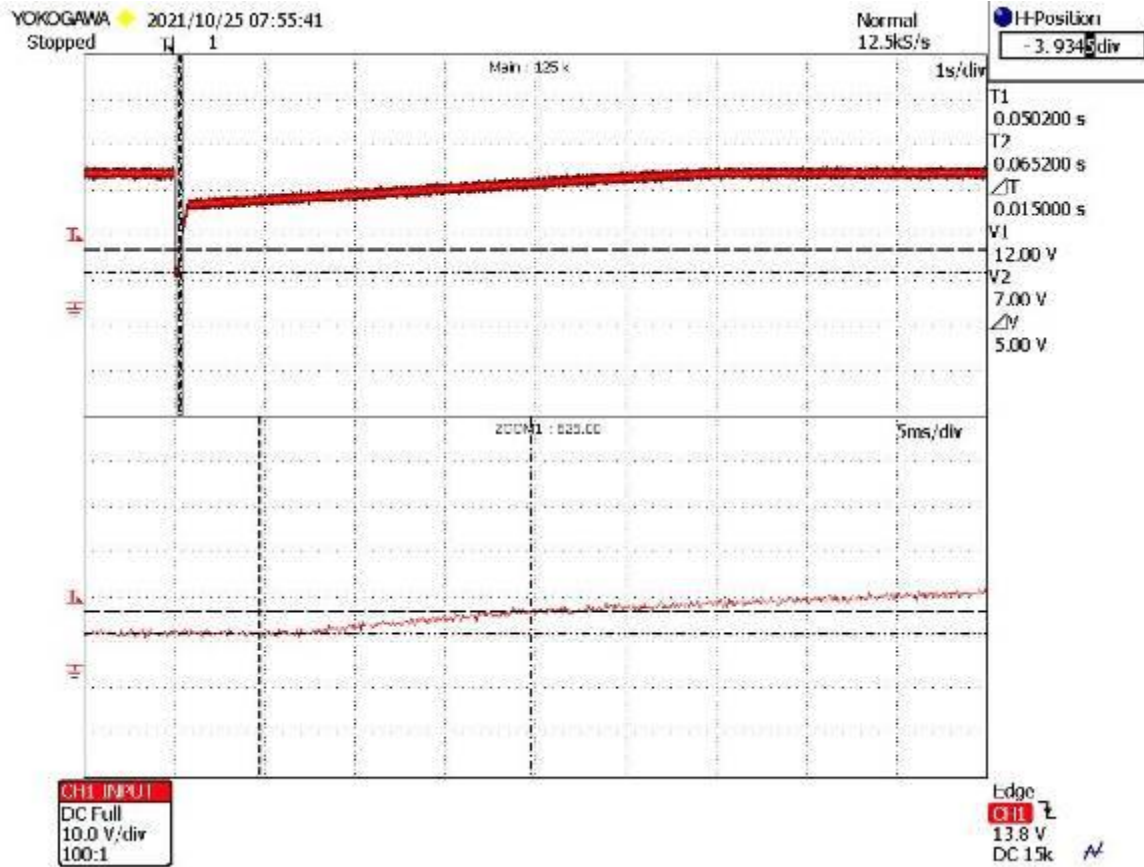


Figure I-56: Condition HHH, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

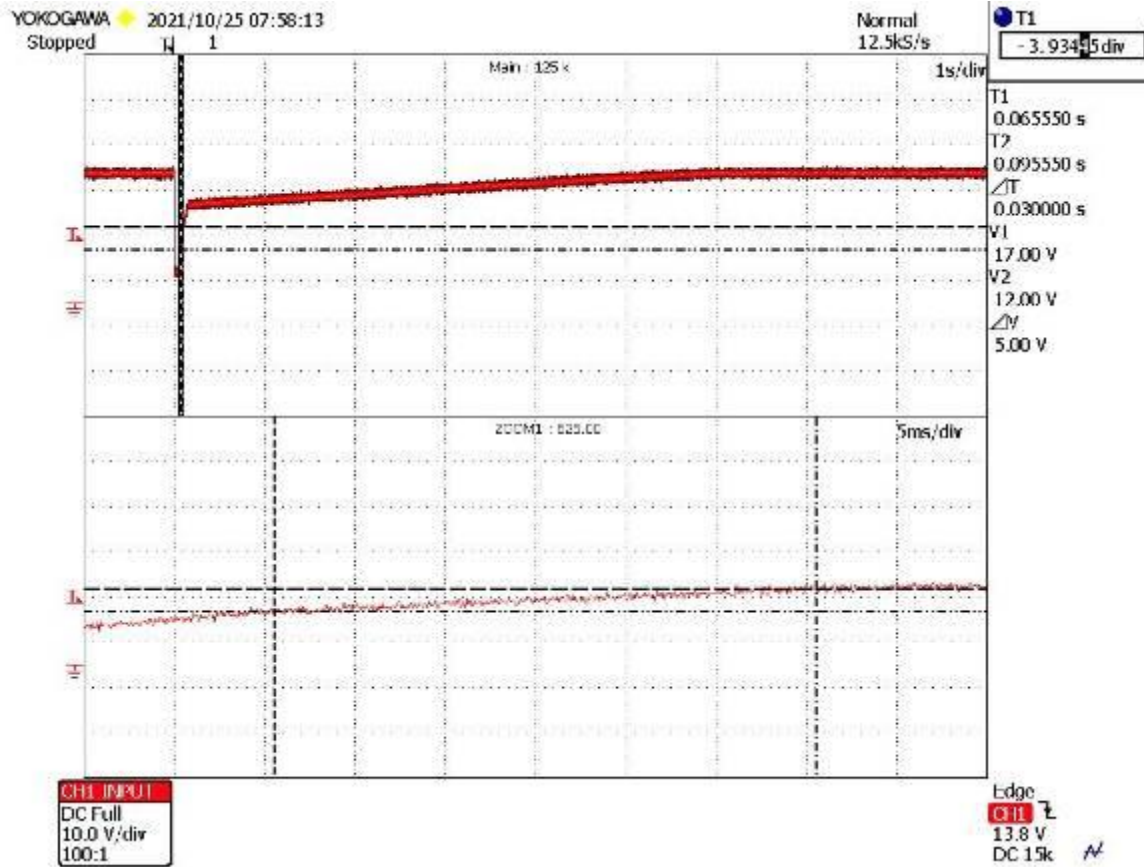


Figure I-57: Condition HHH, waveform verification, second transient to third transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

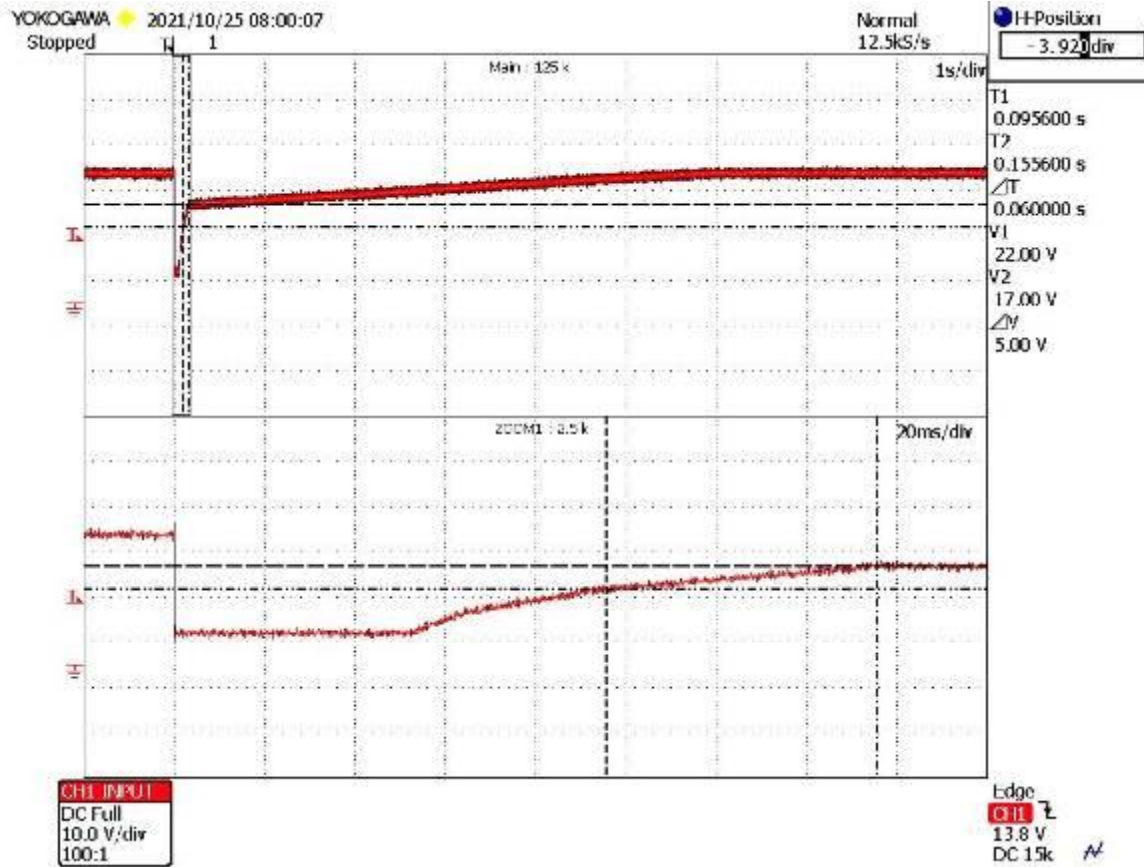


Figure I-58: Condition HHH, waveform verification, third transient to fourth transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

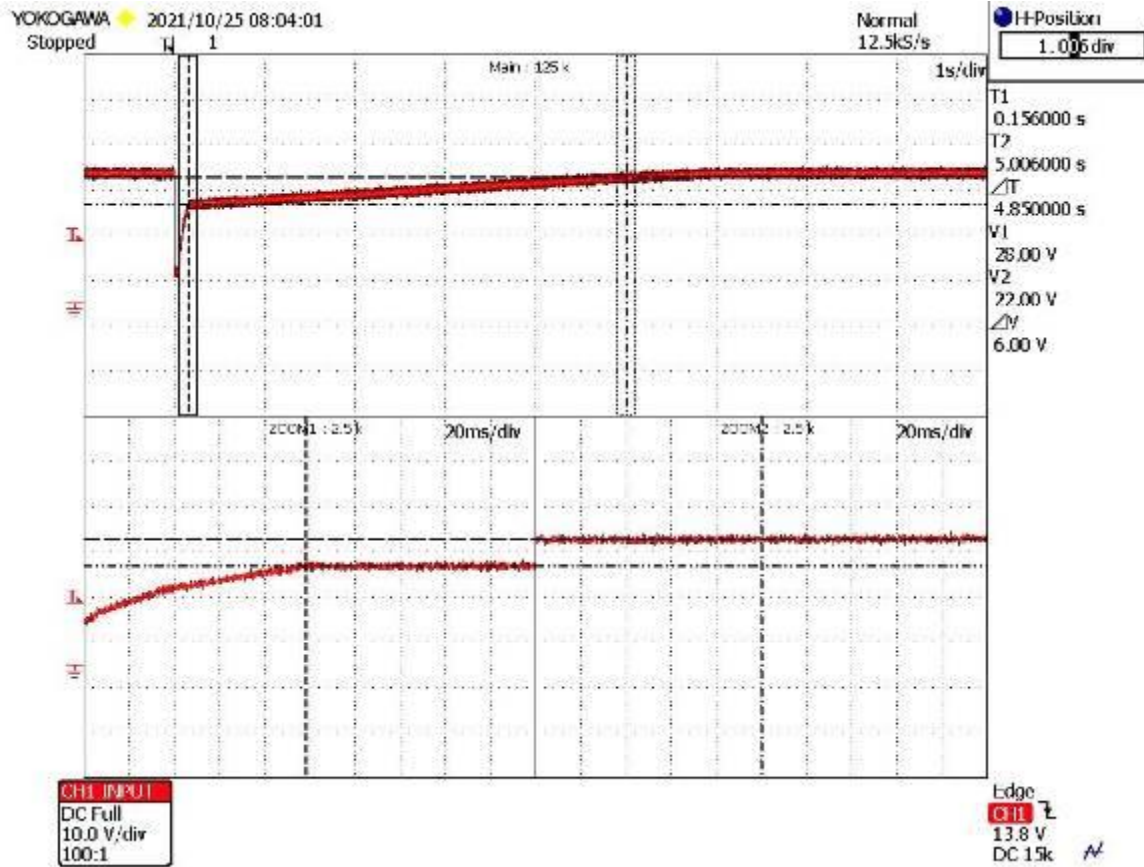


Figure I-59: Condition HHH, waveform verification, fourth transient to fifth transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

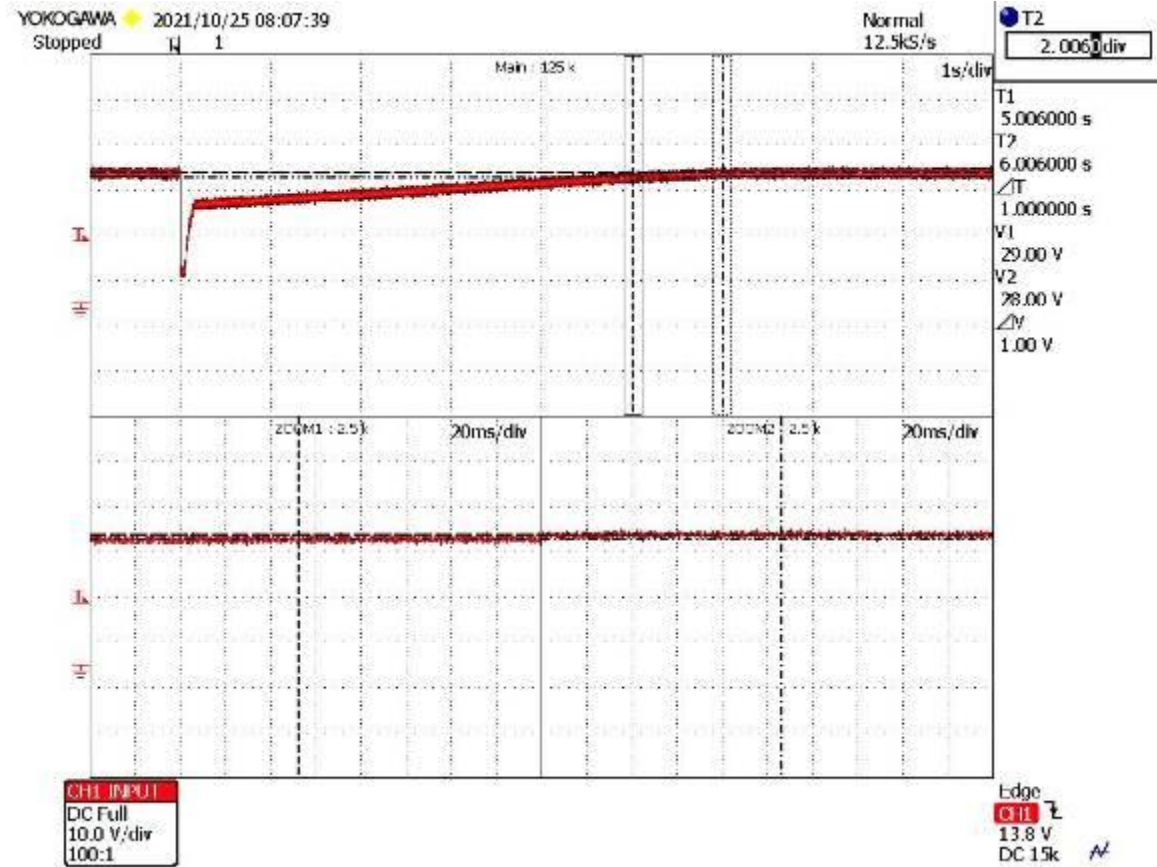


Figure I-60: Condition HHH, waveform verification, fifth transient to steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

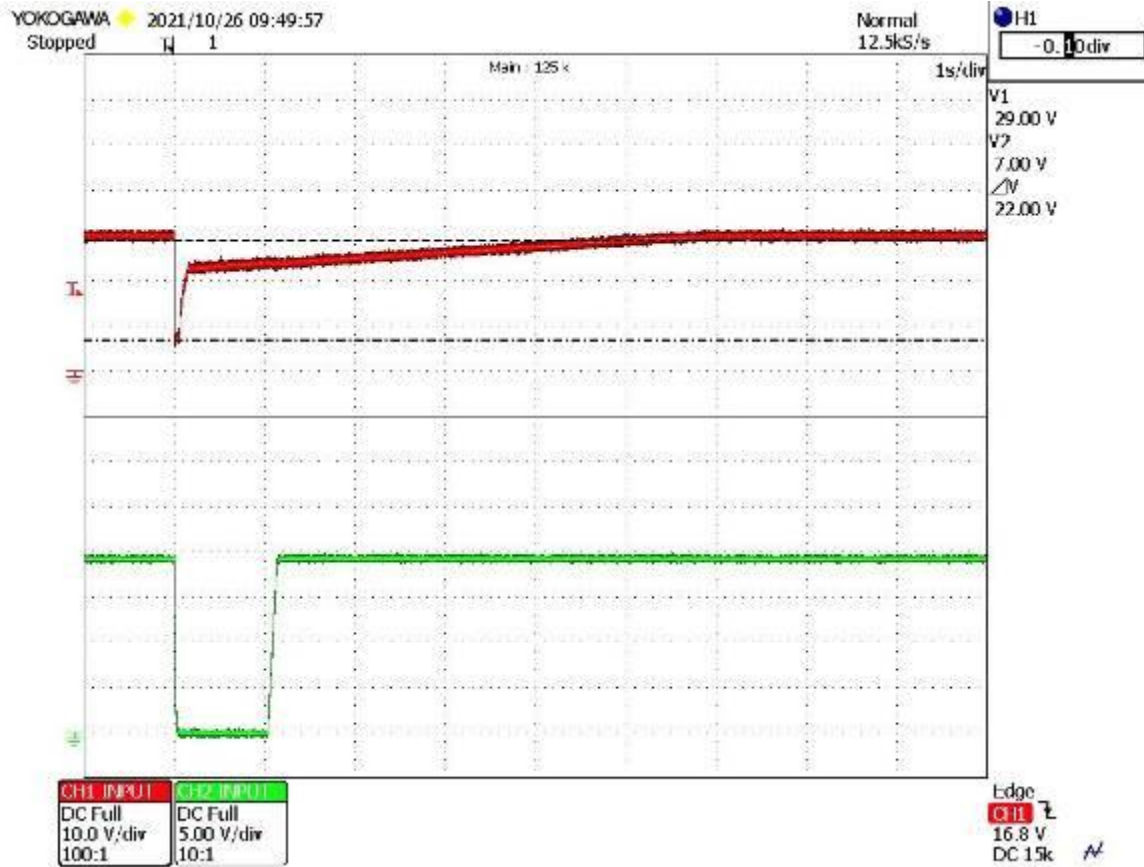


Figure I-61: Condition HHH, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

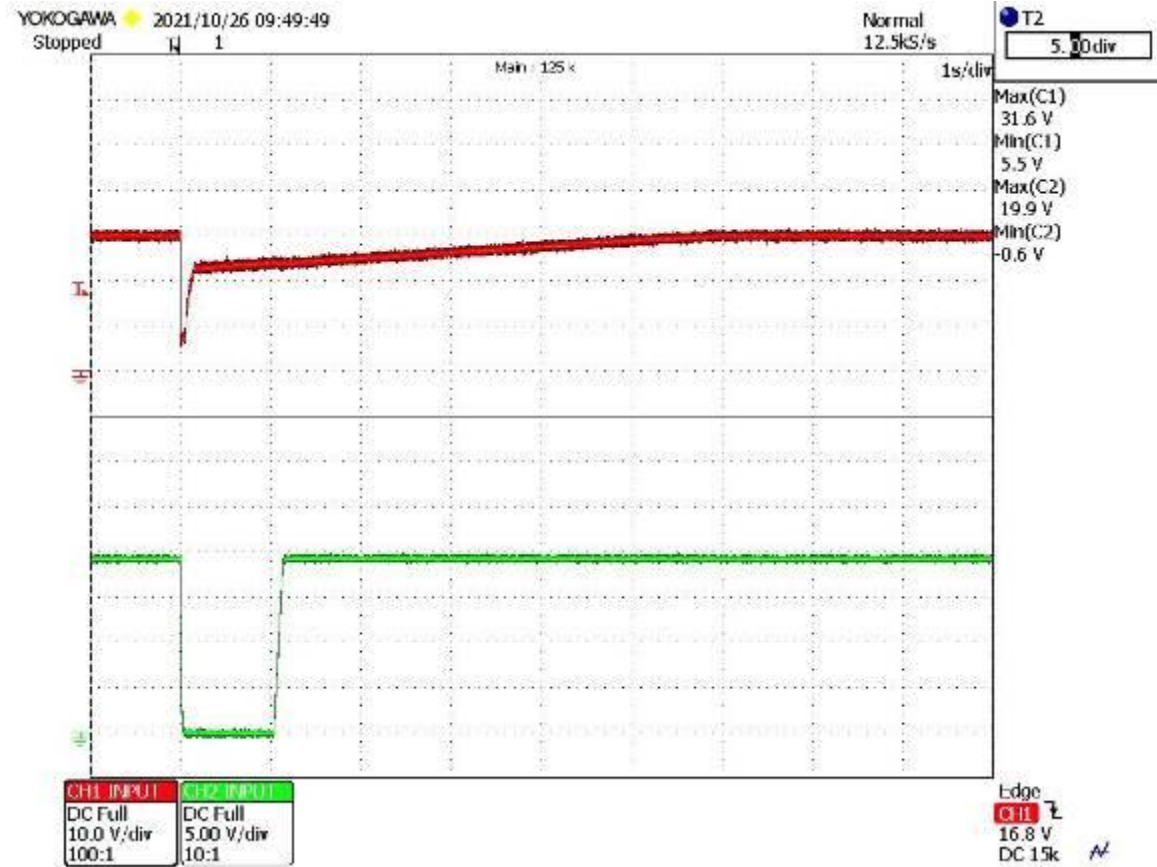


Figure I-62: Condition HHH, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

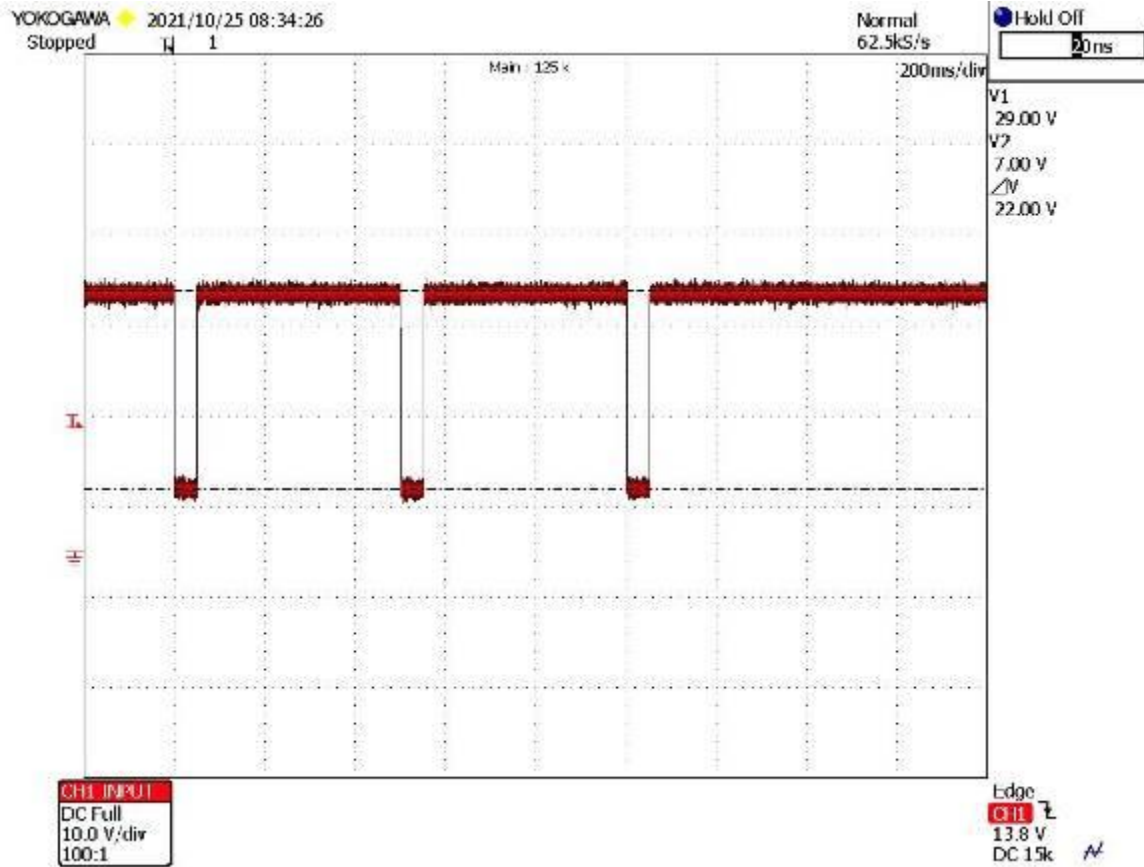


Figure I-63: Condition III, 3 times every 0.5 sec, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

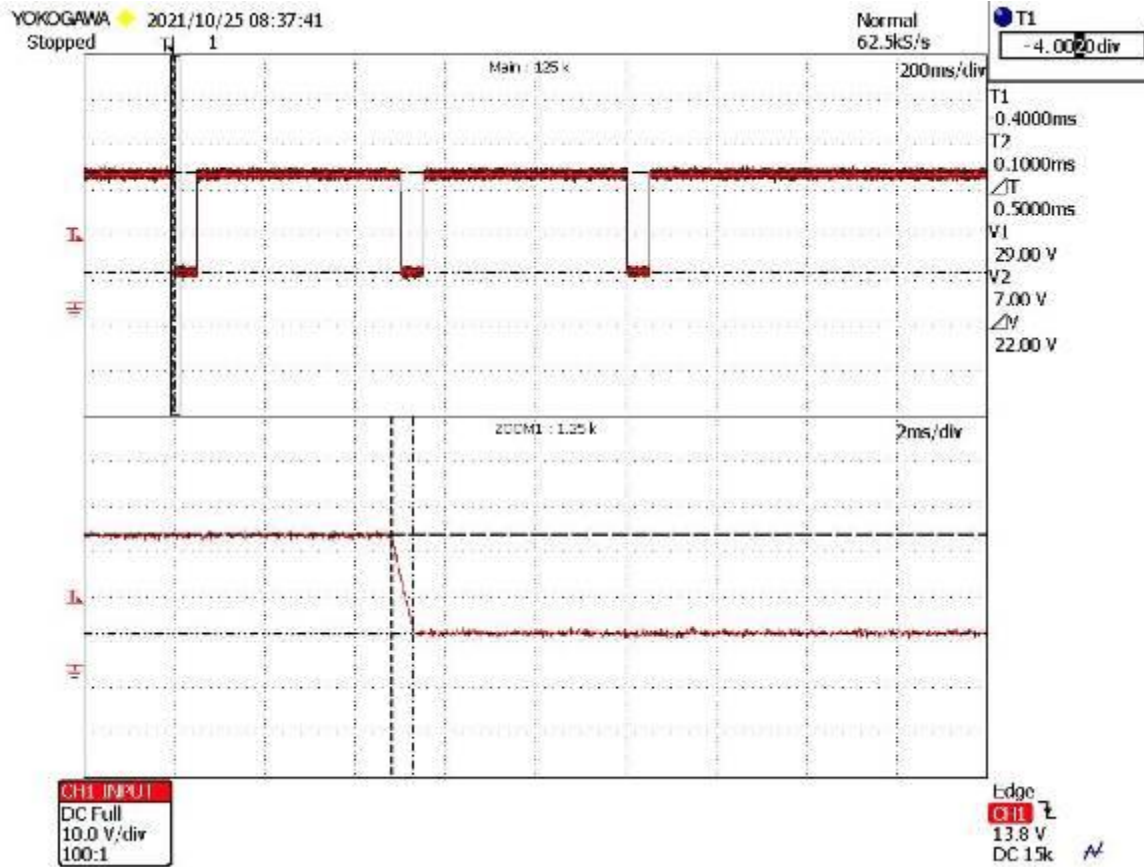


Figure I-64: Condition III, 3 times every 0.5 sec, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

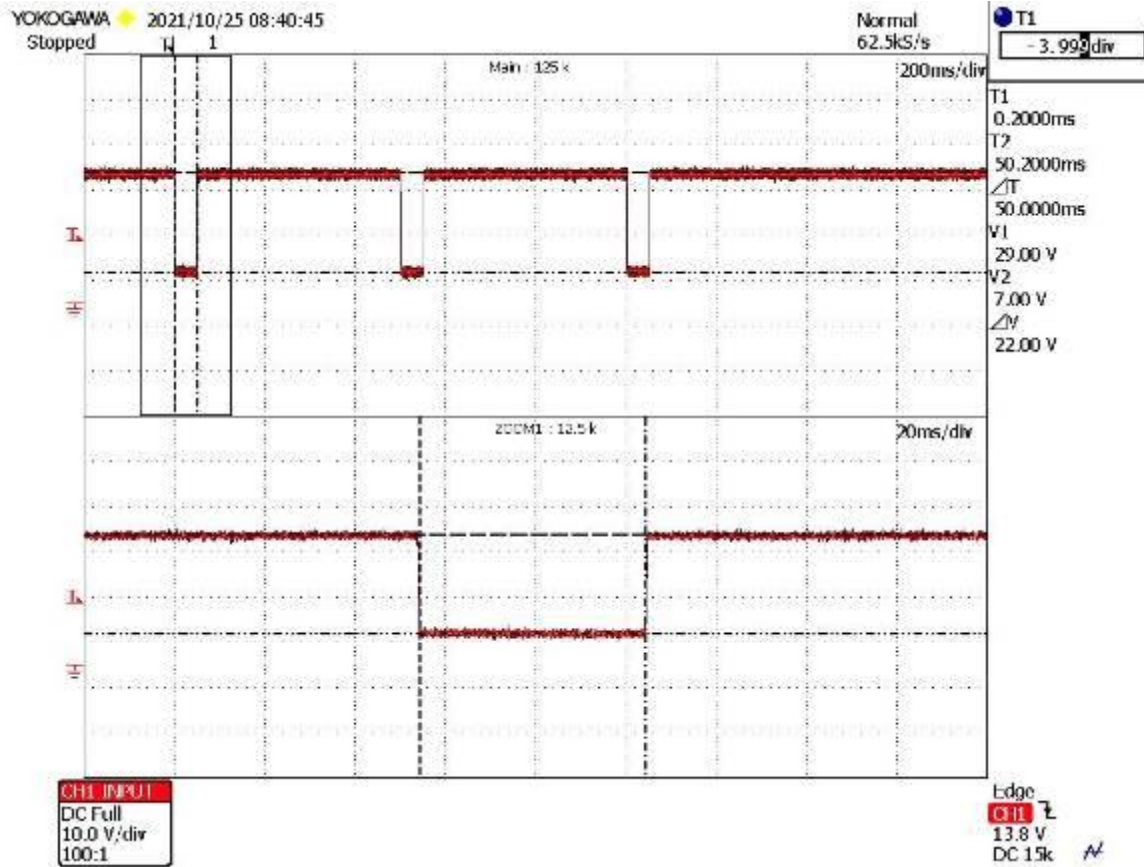


Figure I-65: Condition III, 3 times every 0.5 sec, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

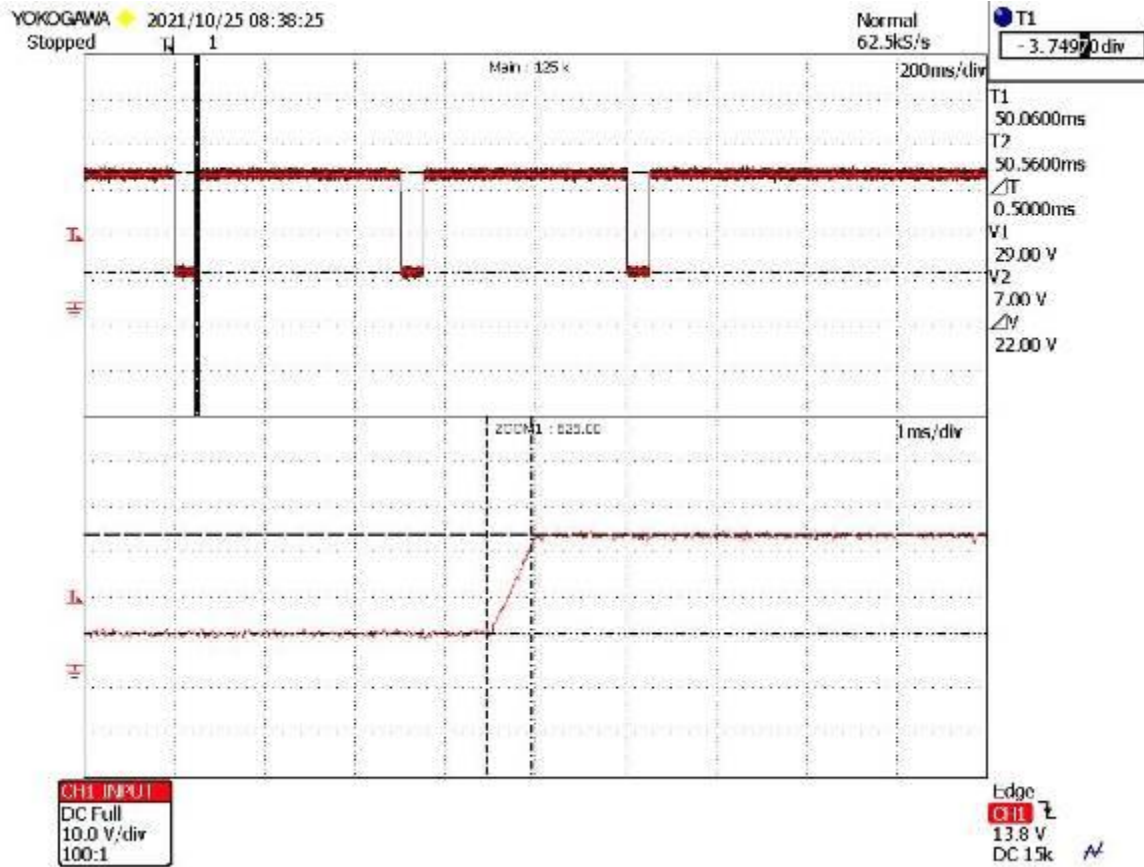


Figure I-66: Condition III, 3 times every 0.5 sec, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

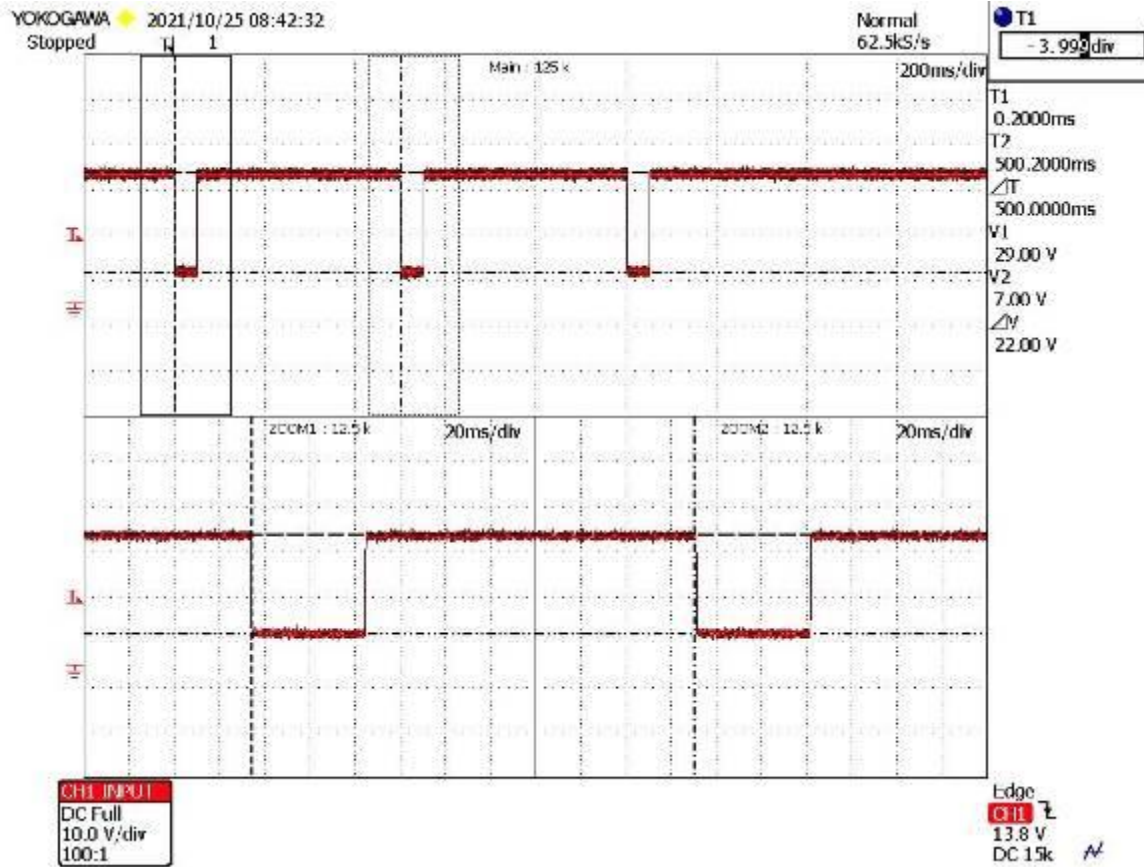


Figure I-67: Condition III, 3 times every 0.5 sec, waveform verification, first transient to second transient delay

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

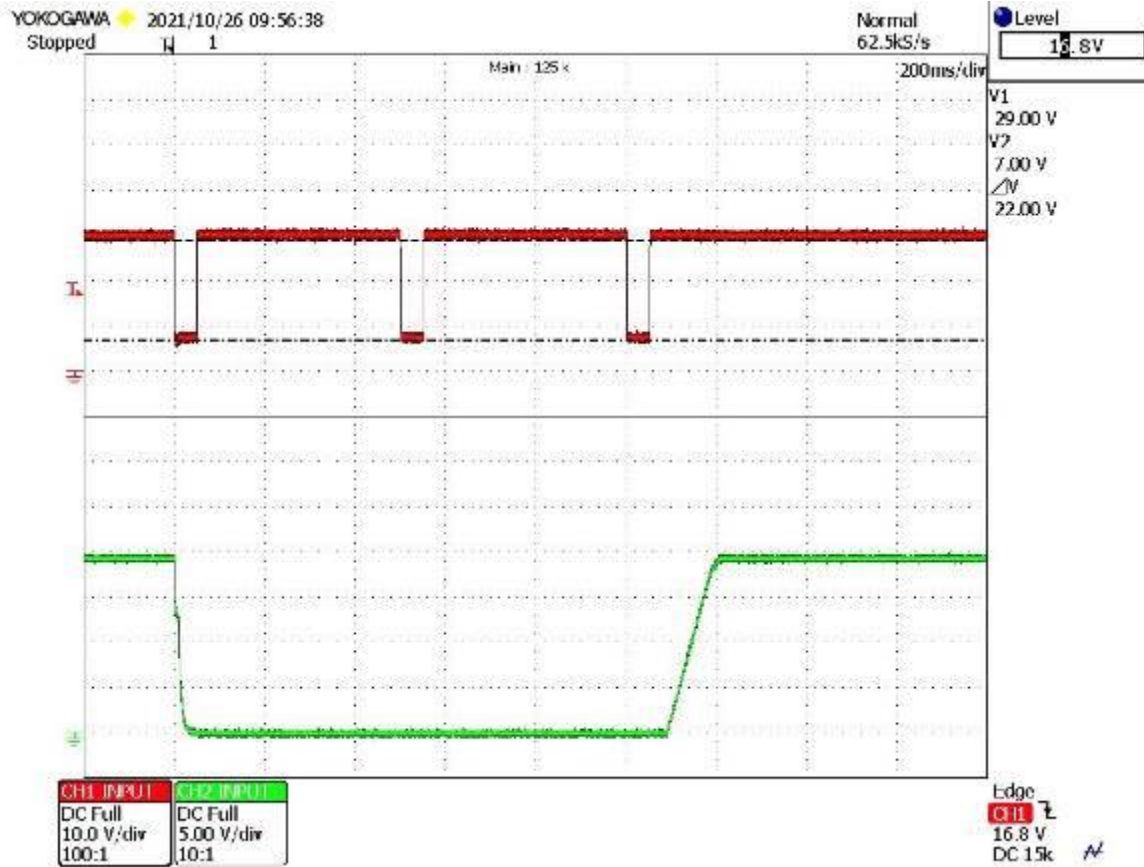


Figure I-68: Condition III, 3 times every 0.5 sec, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

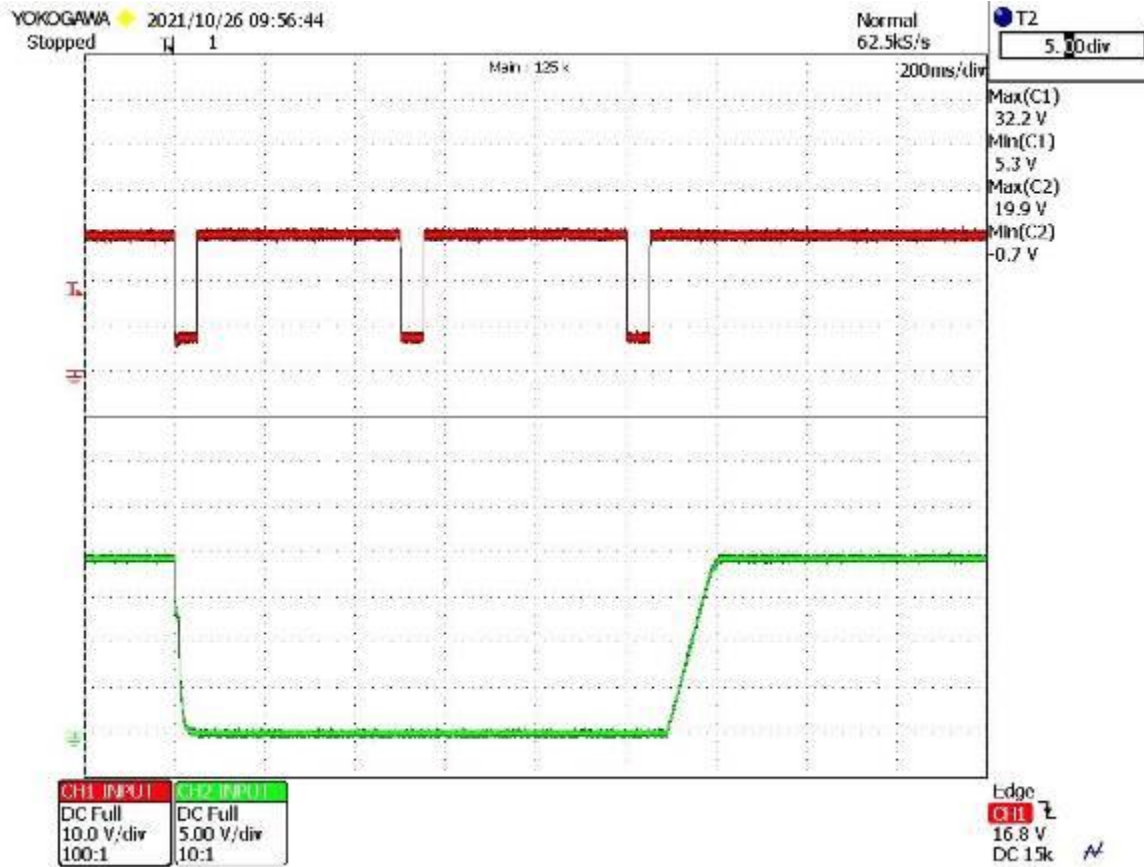


Figure I-69: Condition III, 3 times every 0.5 sec, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

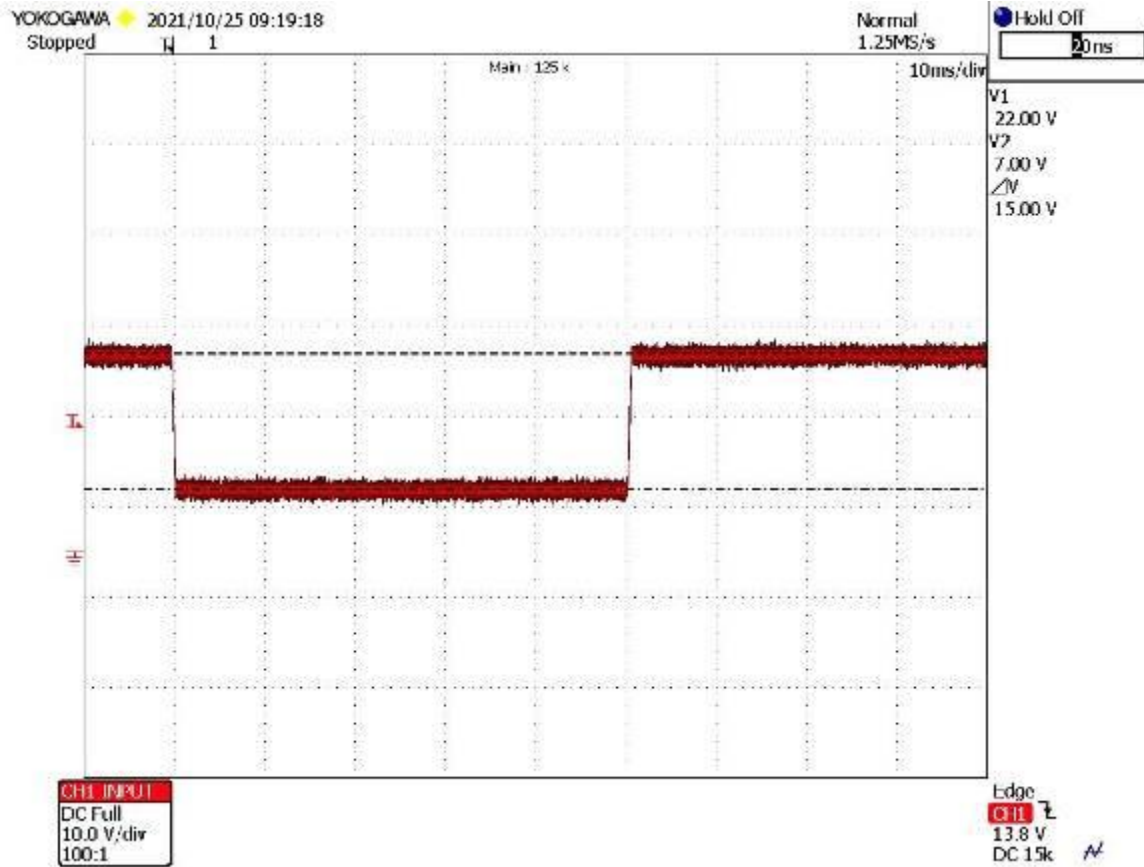


Figure I-70: Condition JJJ, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

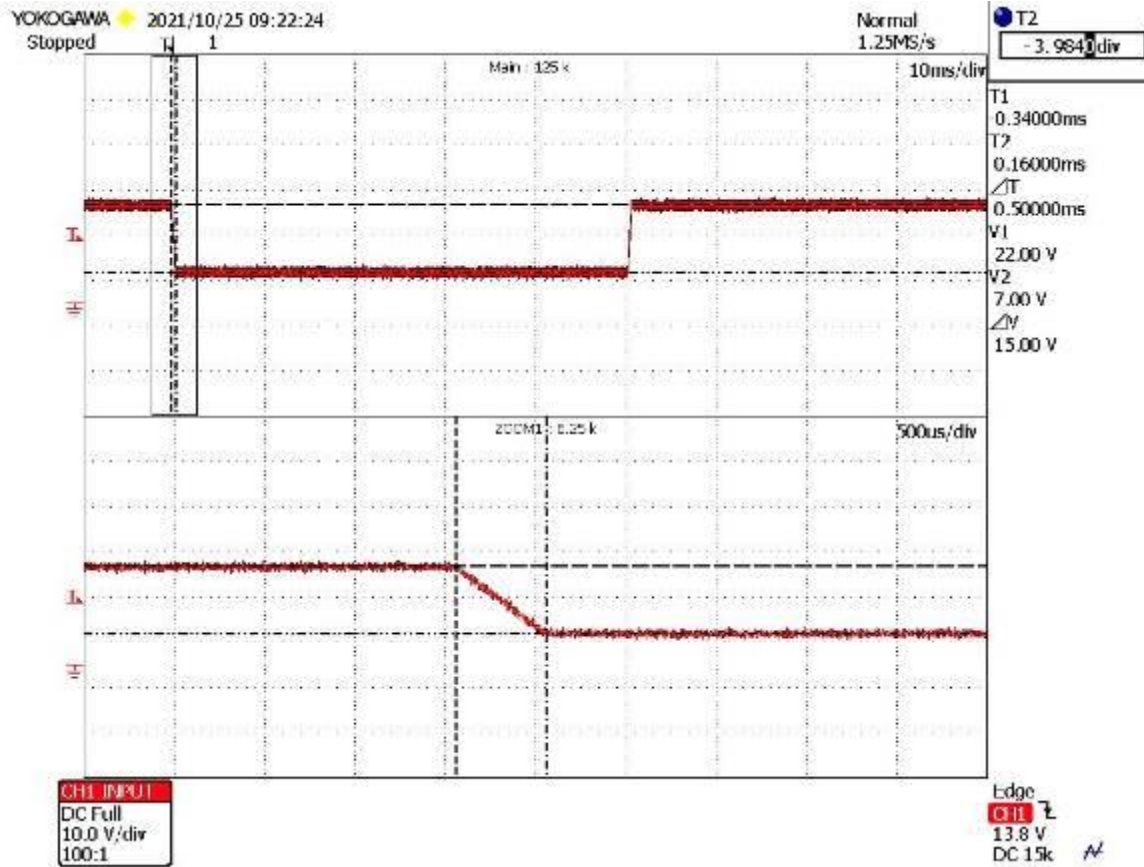


Figure I-71: Condition JJJ, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

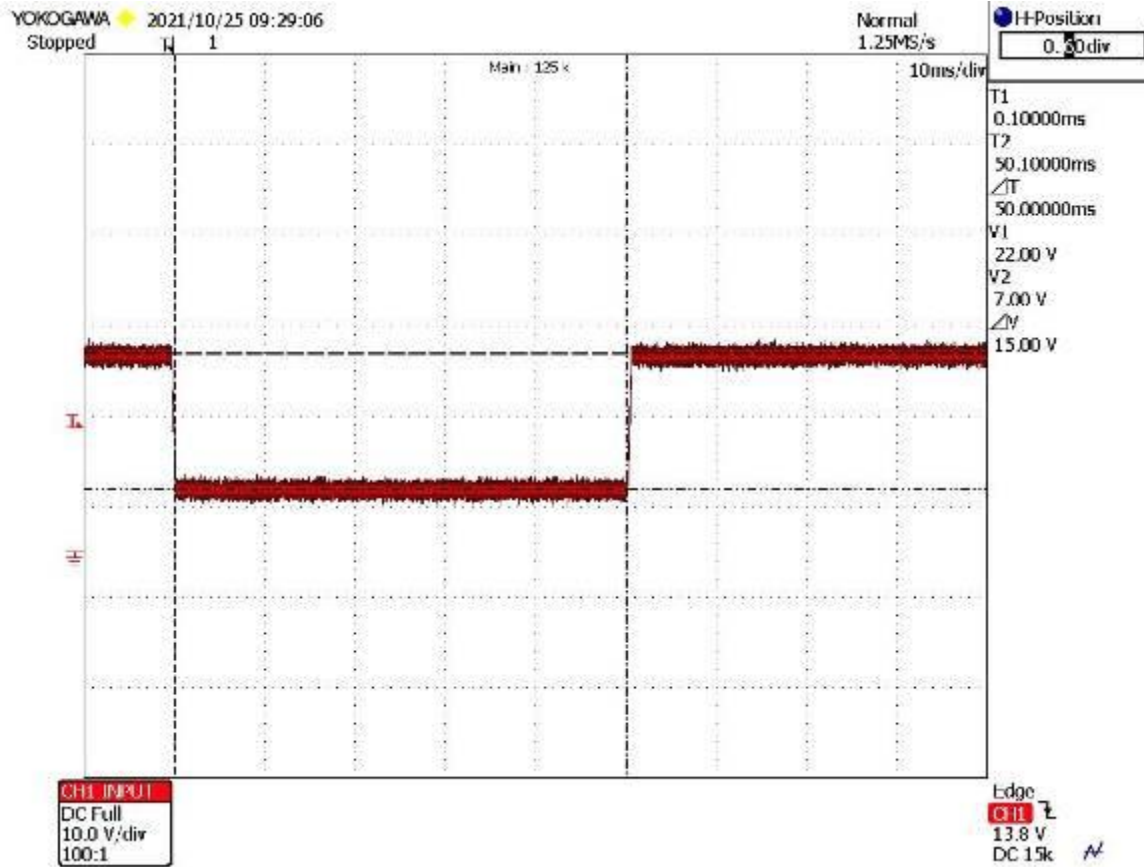


Figure I-72: Condition JJJ, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

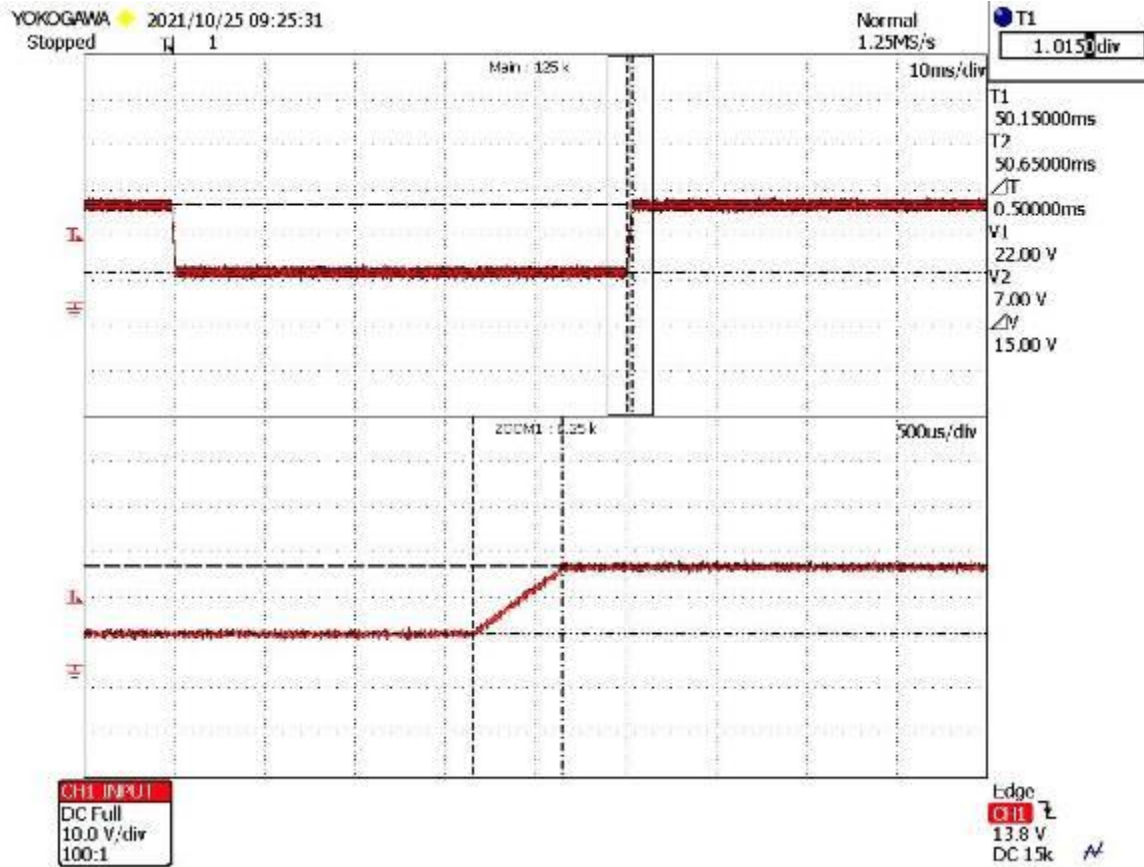


Figure I-73: Condition JJJ, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

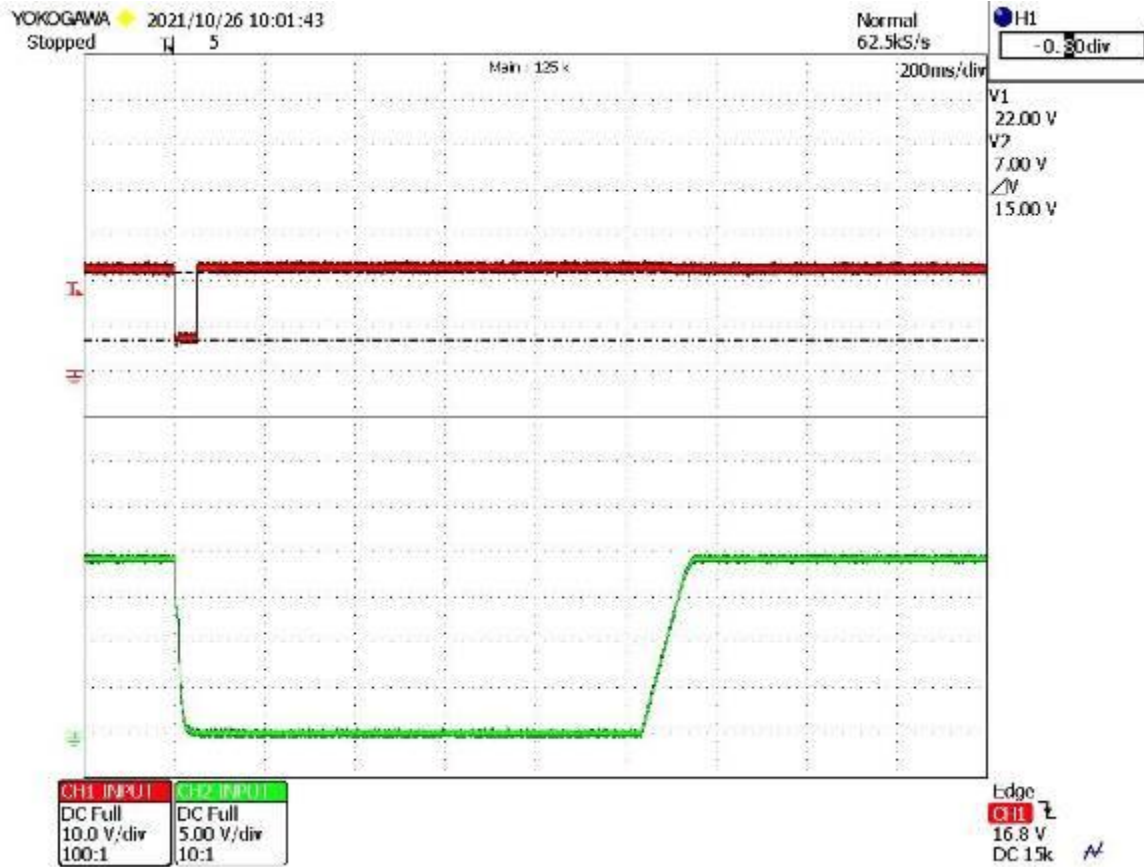


Figure I-74: Condition JJJ, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-75: Condition JJJ, test application minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

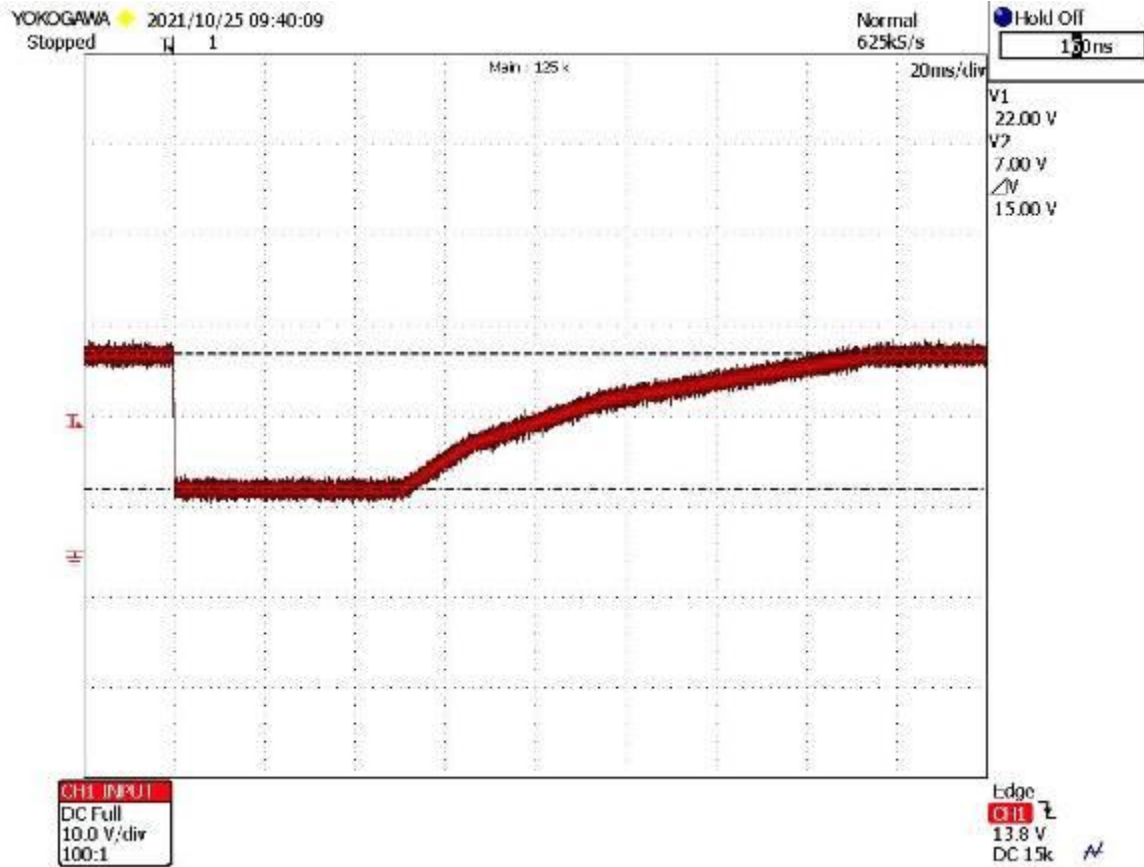


Figure I-76: Condition KKK, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

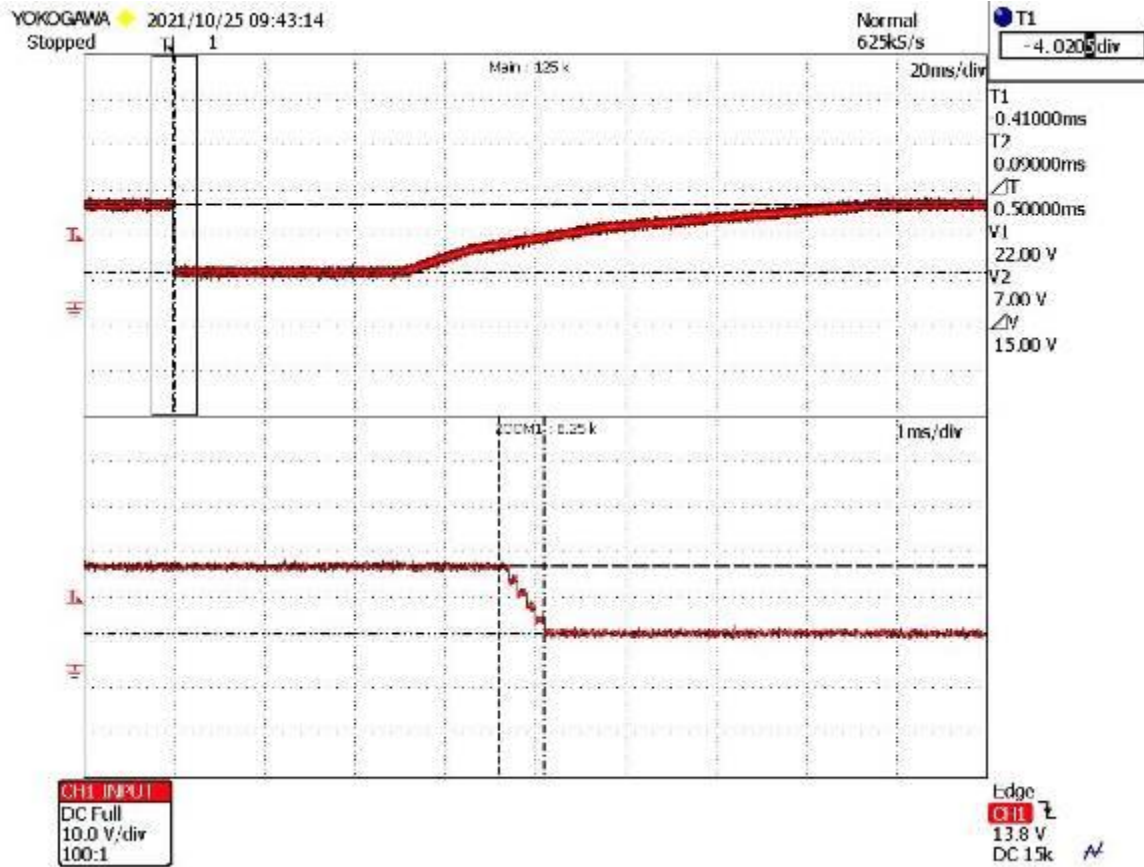


Figure I-77: Condition KKK, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

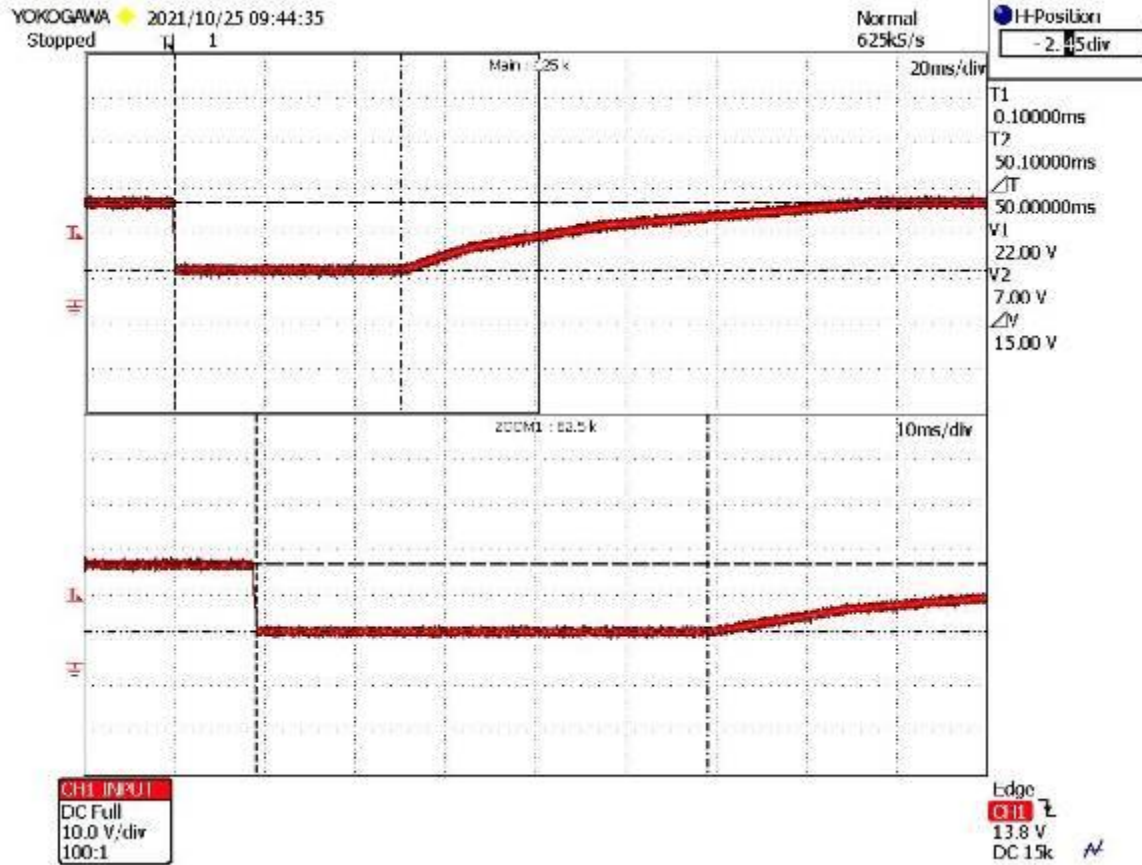


Figure I-78: Condition KKK, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

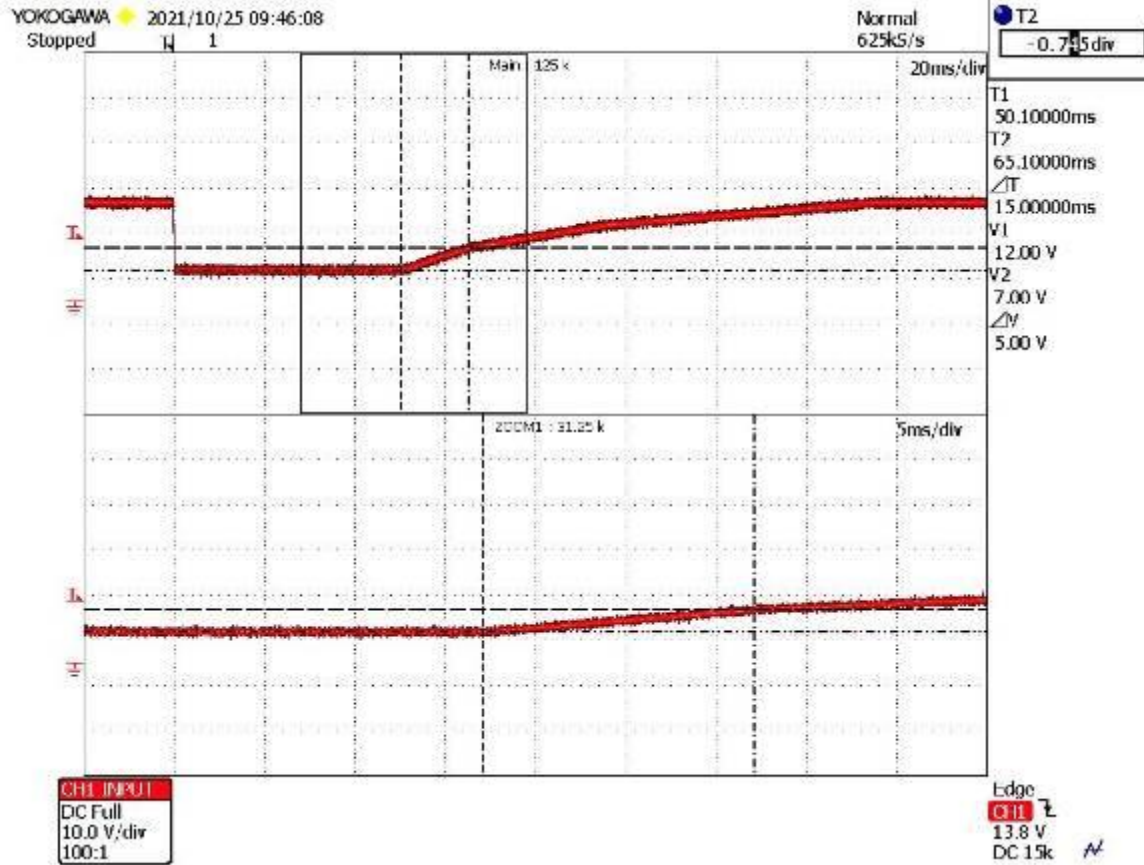


Figure I-79: Condition KKK, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

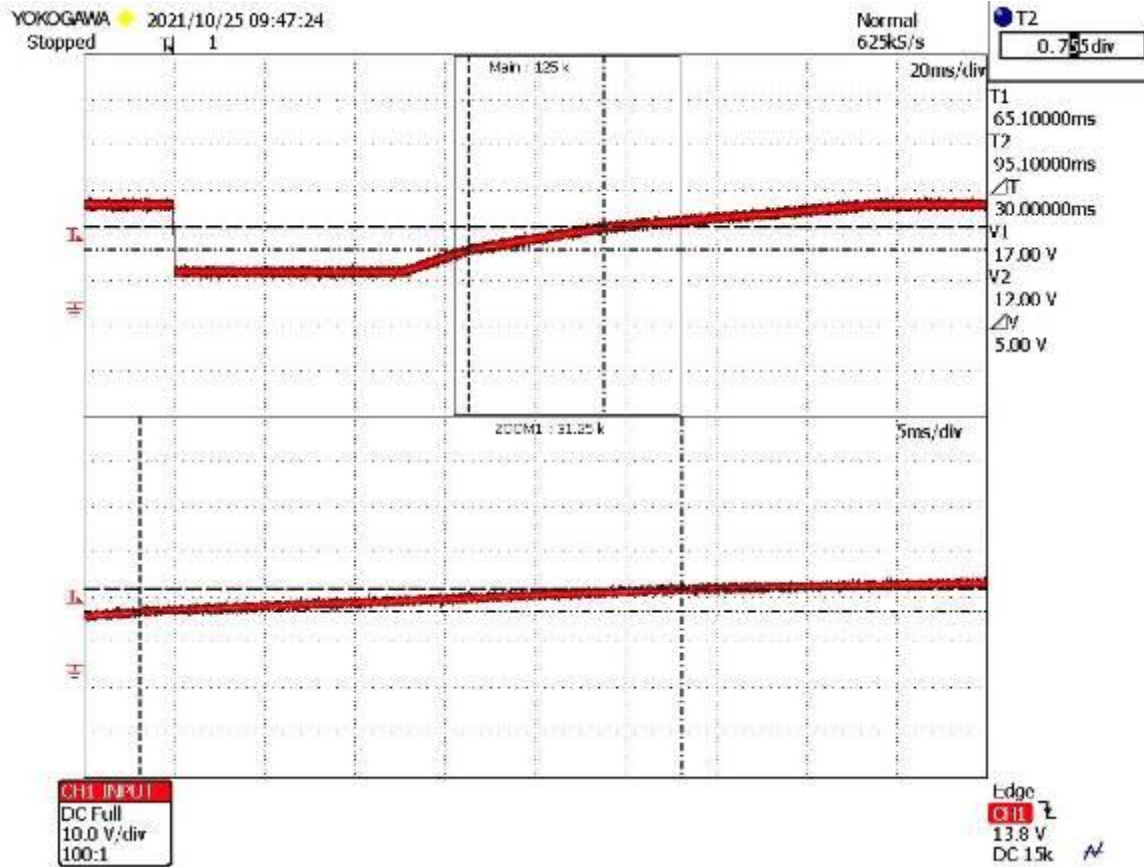


Figure I-80: Condition KKK, waveform verification, second transient to third transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

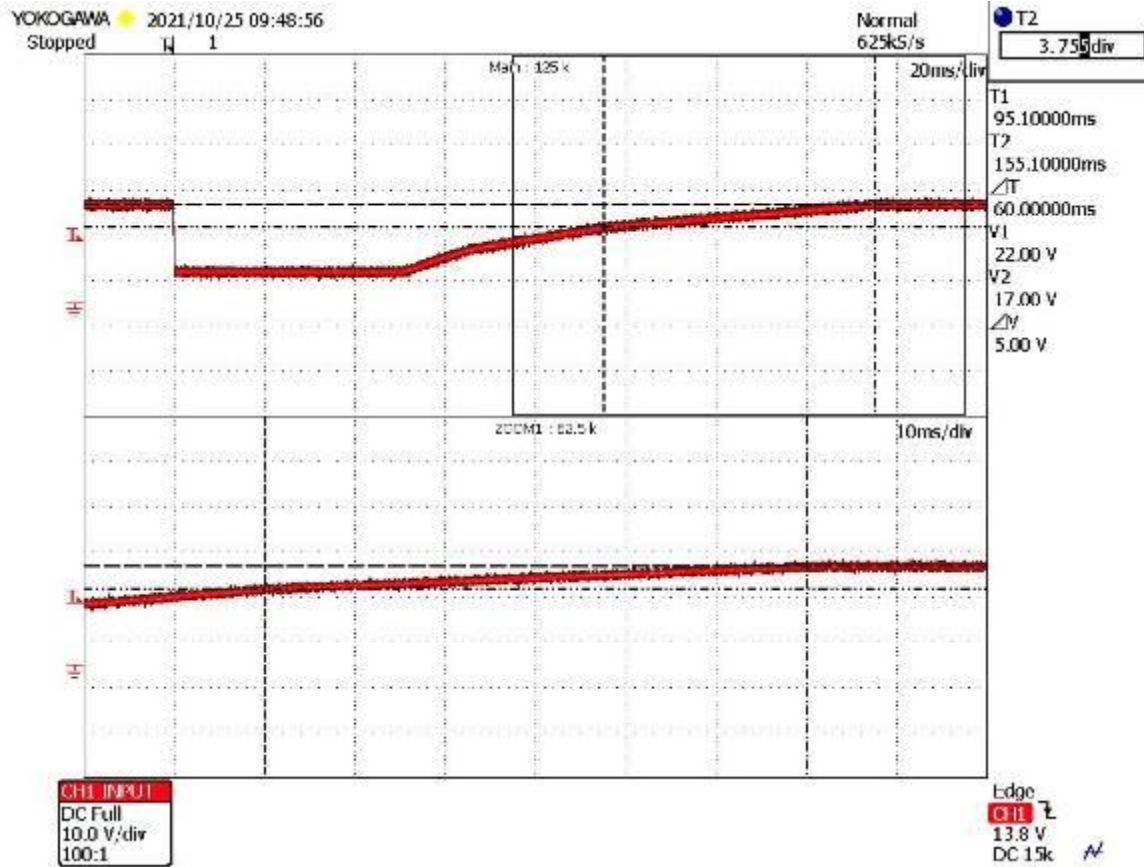


Figure I-81: Condition KKK, waveform verification, third transient to steady state rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-82: Condition KKK, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

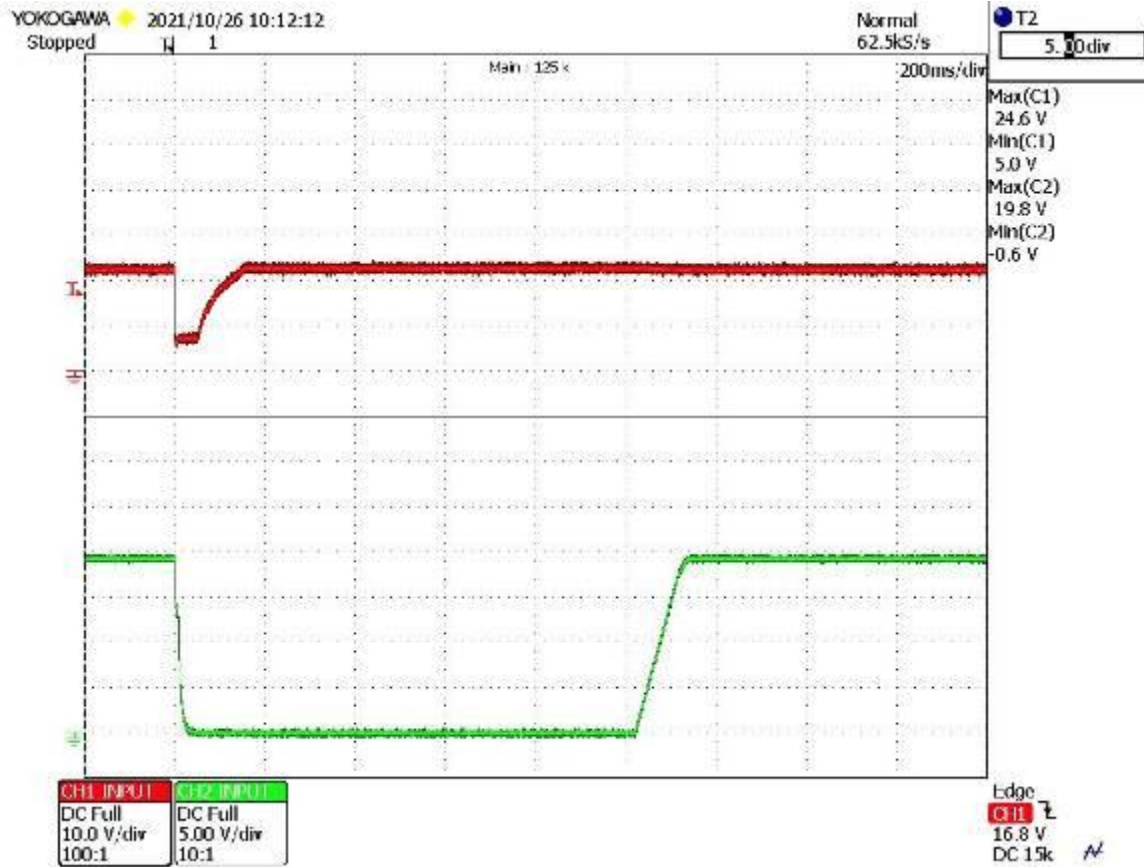


Figure I-83: Condition KKK, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

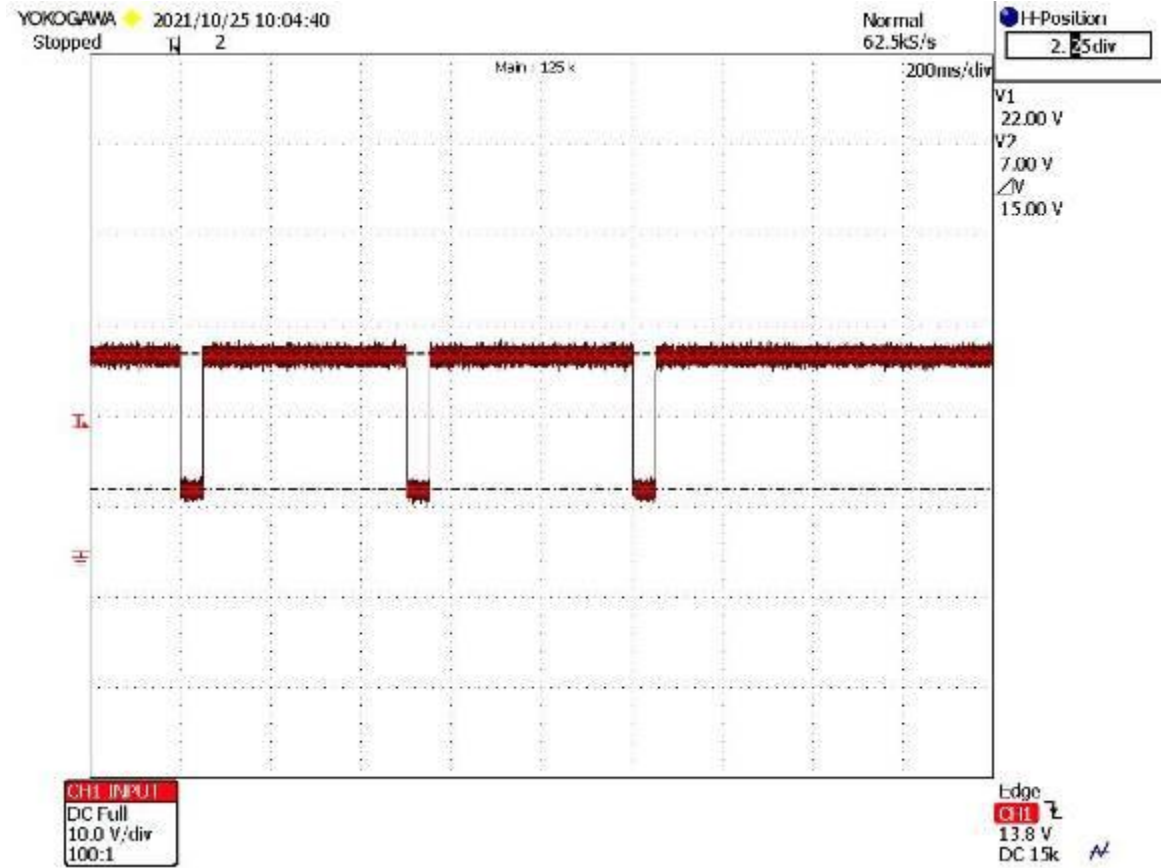


Figure I-84: Condition LLL, 3 times every 0.5 sec, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

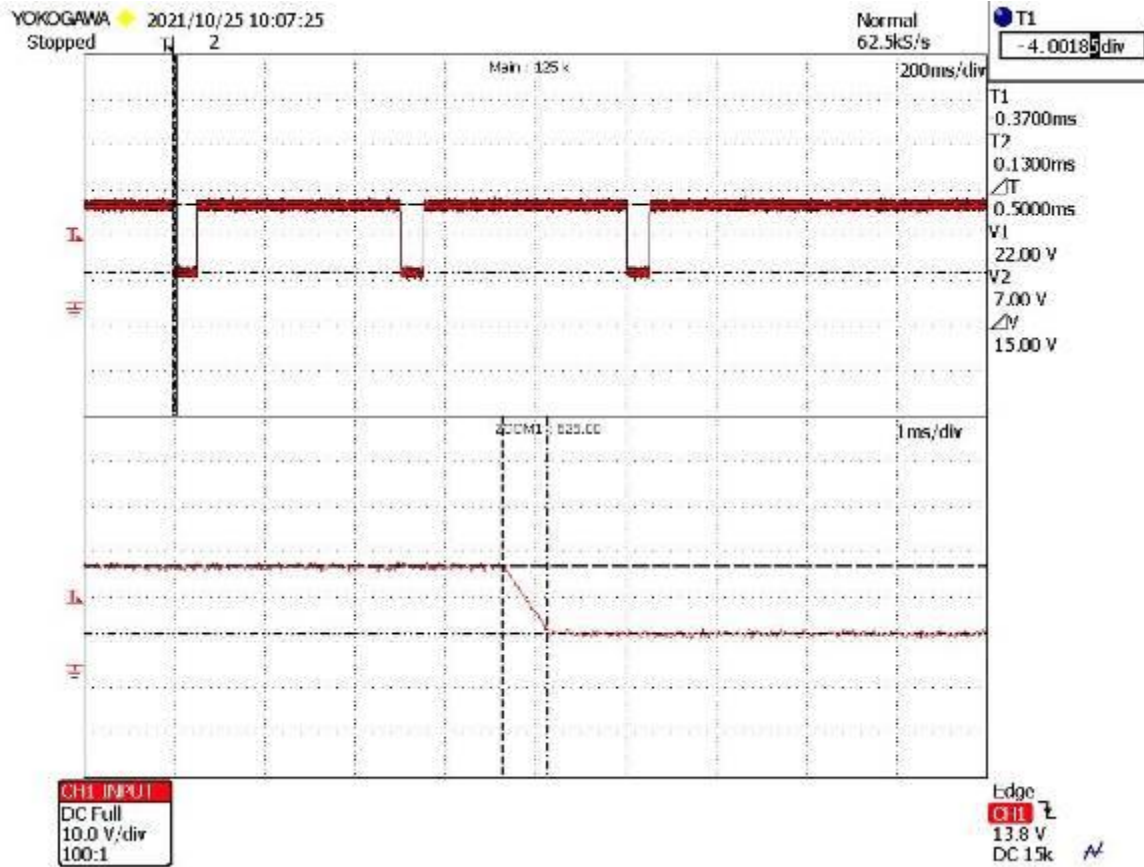


Figure I-85: Condition LLL, 3 times every 0.5 sec, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

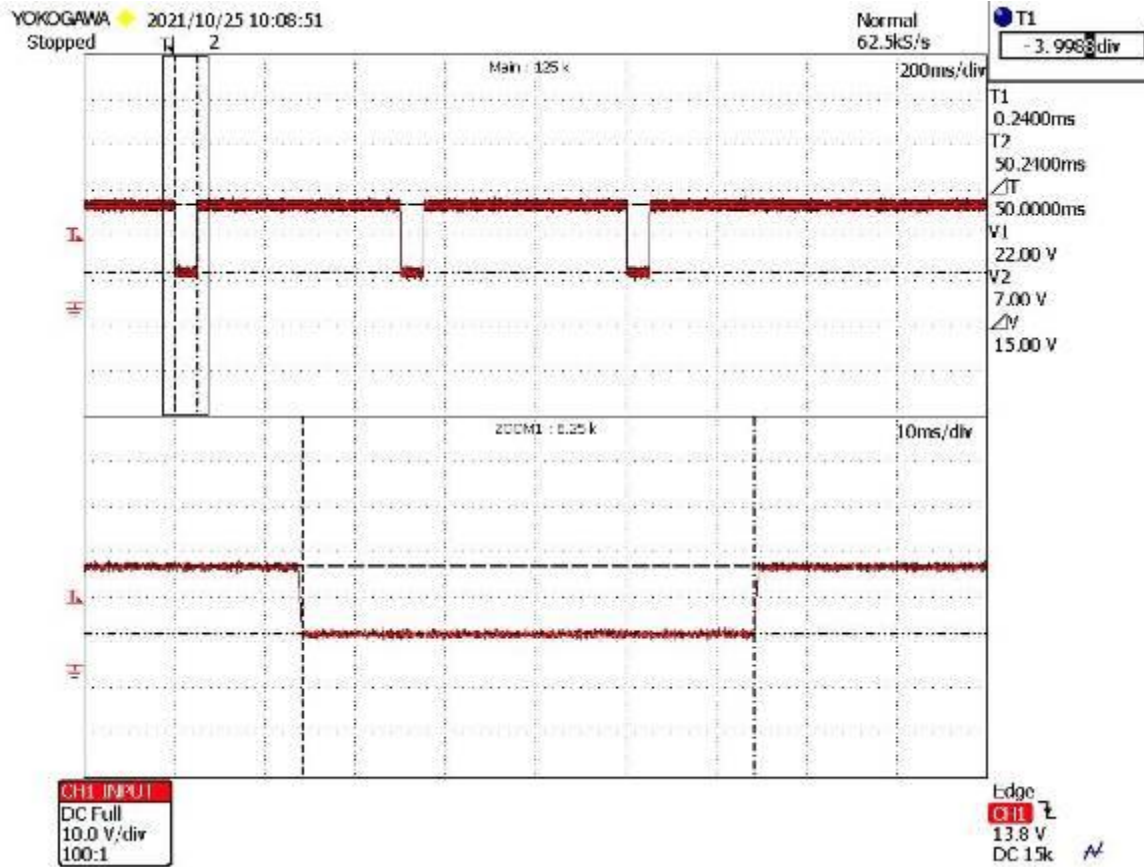


Figure I-86: Condition LLL, 3 times every 0.5 sec, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

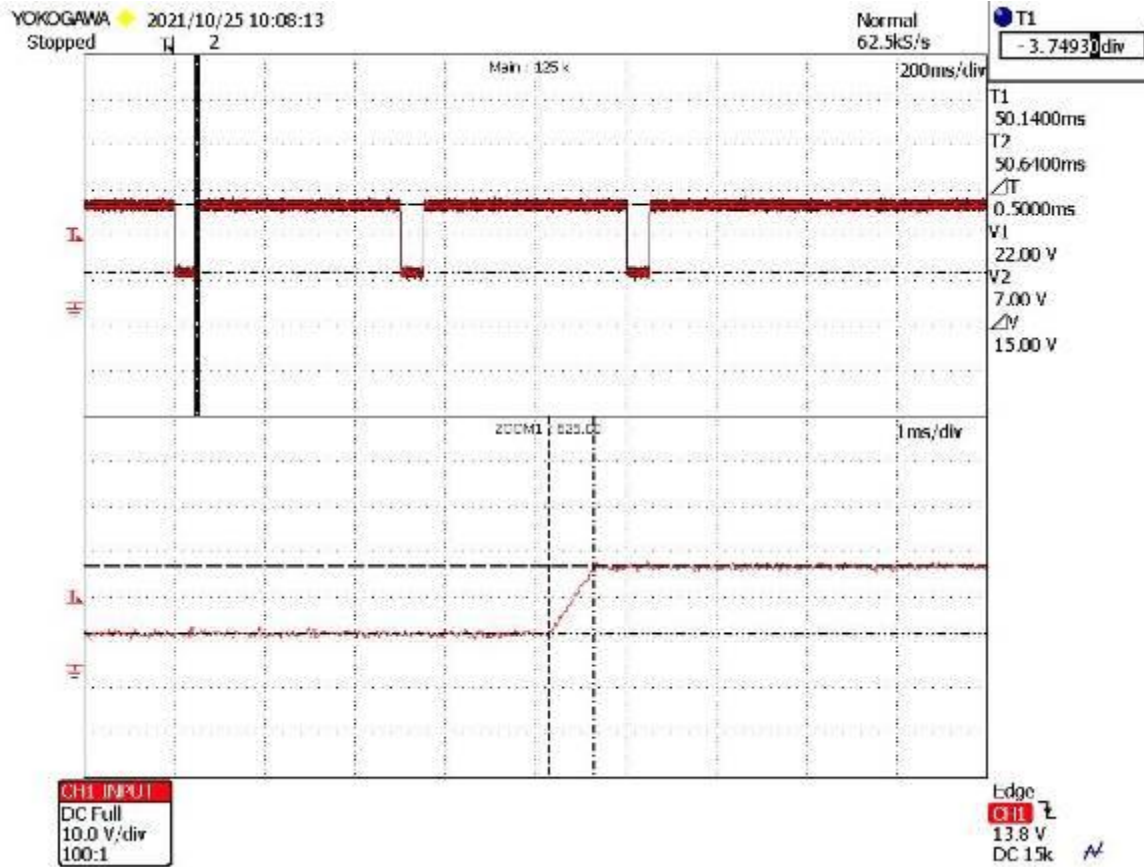


Figure I-87: Condition LLL, 3 times every 0.5 sec, waveform verification, first transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

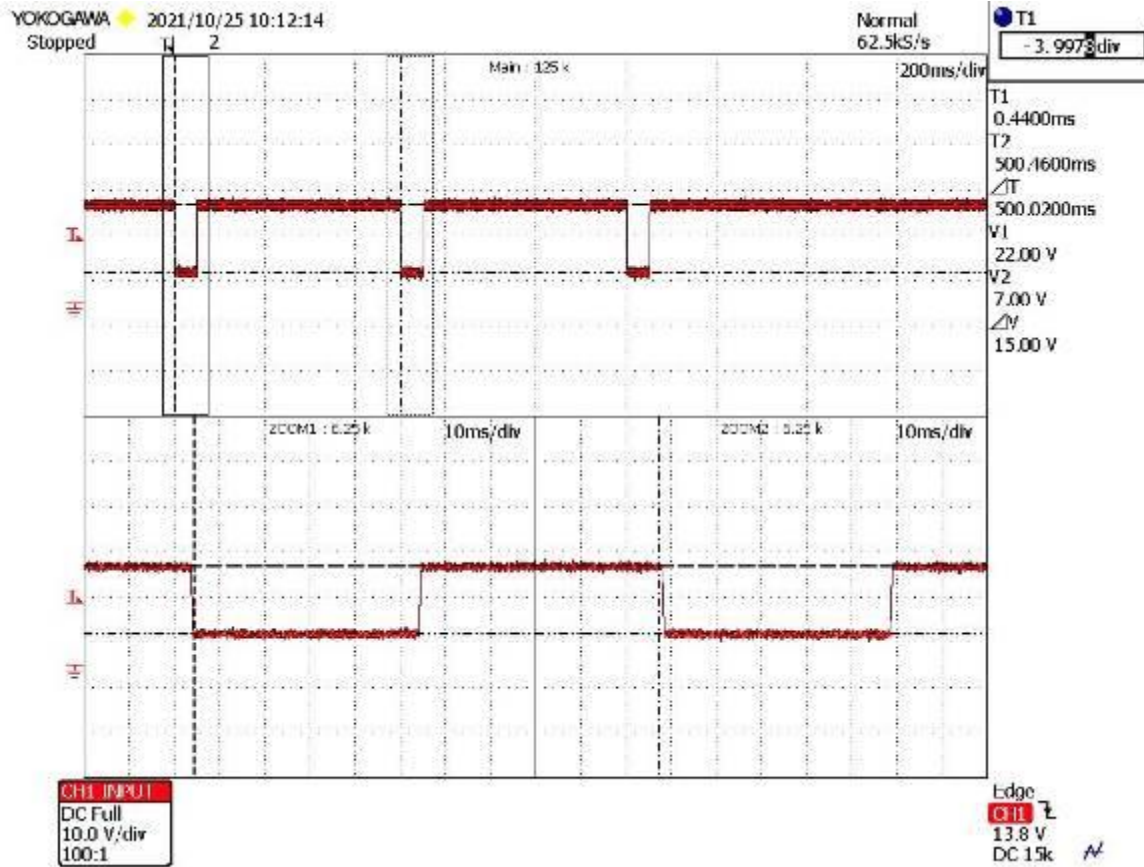


Figure I-88: Condition LLL, 3 times every 0.5 sec, waveform verification, first transient to second transient delay

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-89: Condition LLL, 3 times every 0.5 sec, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

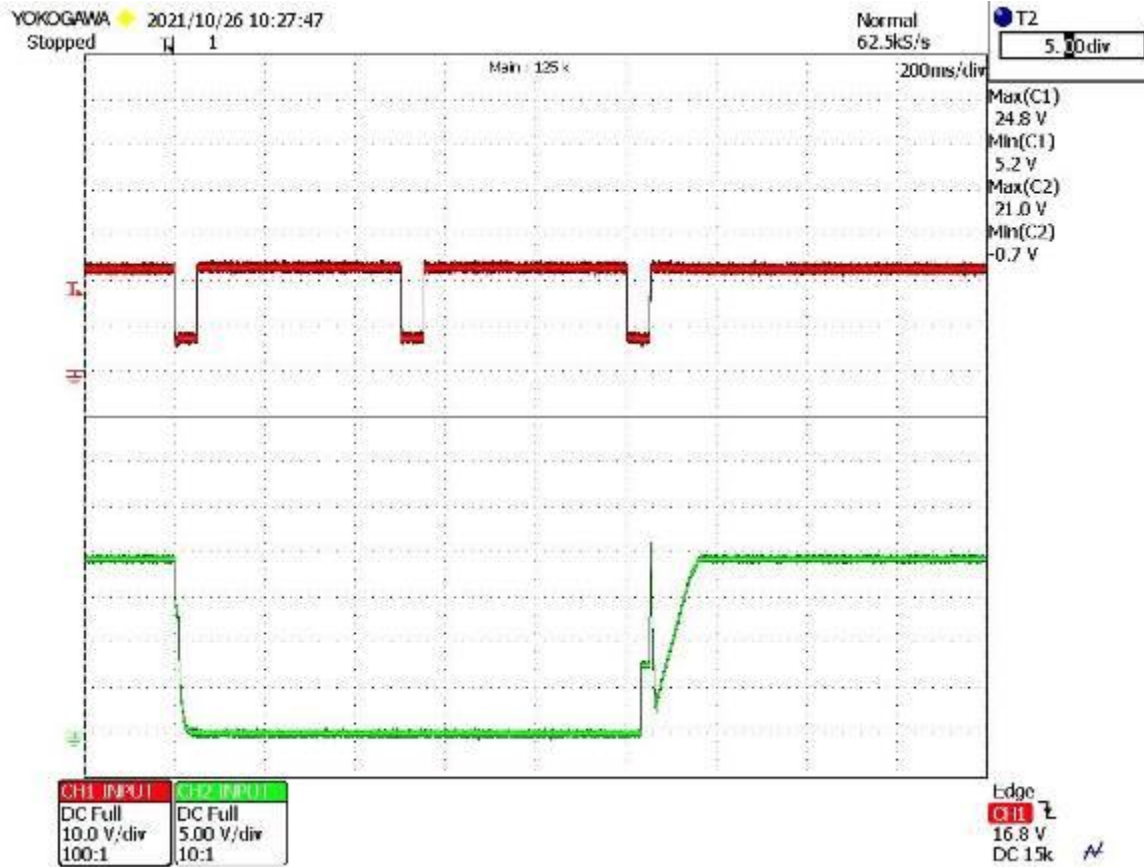


Figure I-90: Condition LLL, 3 times every 0.5 sec, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

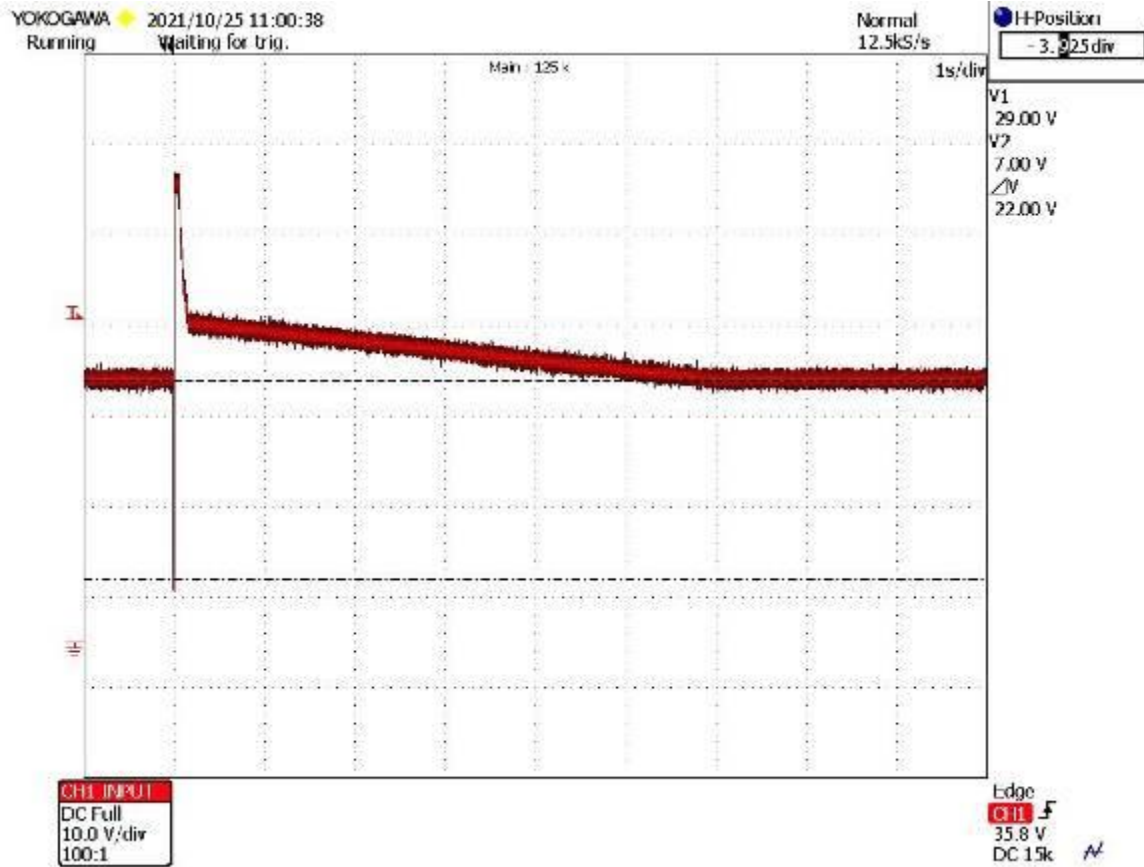


Figure I-91: Condition MMM, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

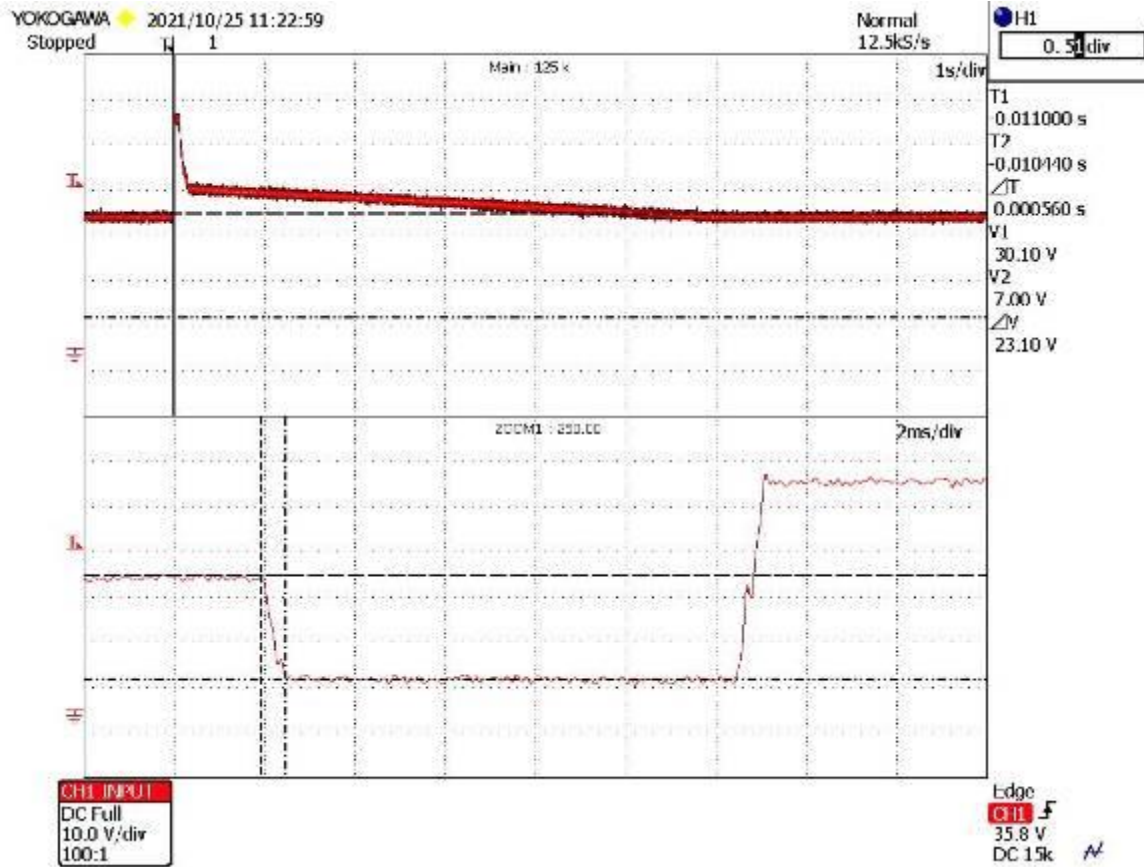


Figure I-92: Condition MMM, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2



Figure I-93: Condition MMM, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

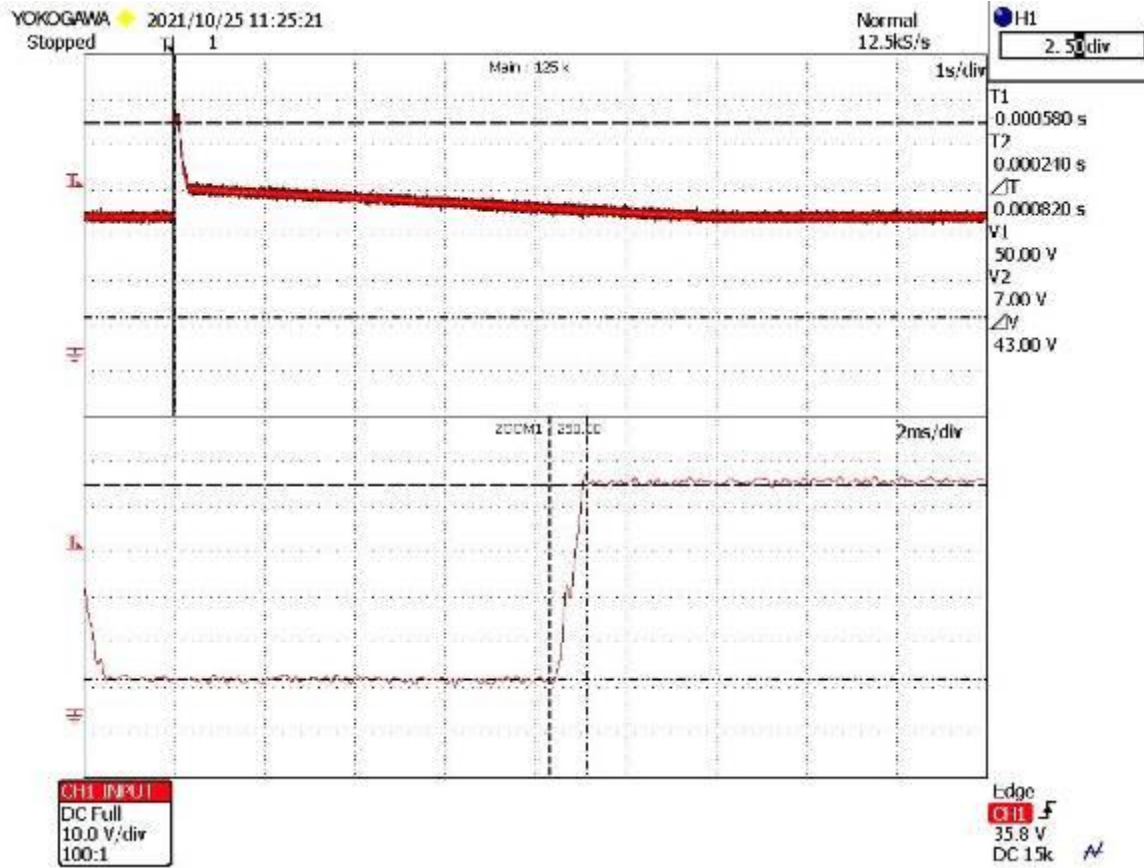


Figure I-94: Condition MMM, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

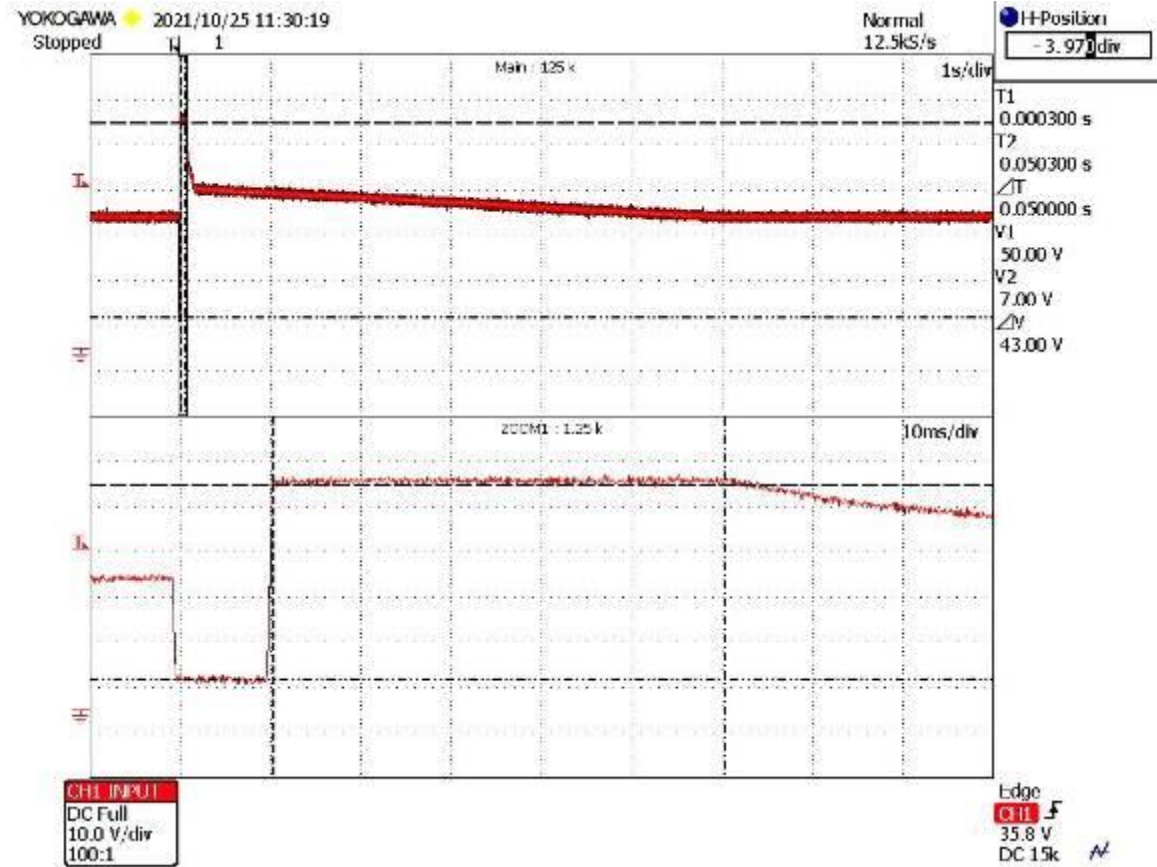


Figure I-95: Condition MMM, waveform verification, second transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

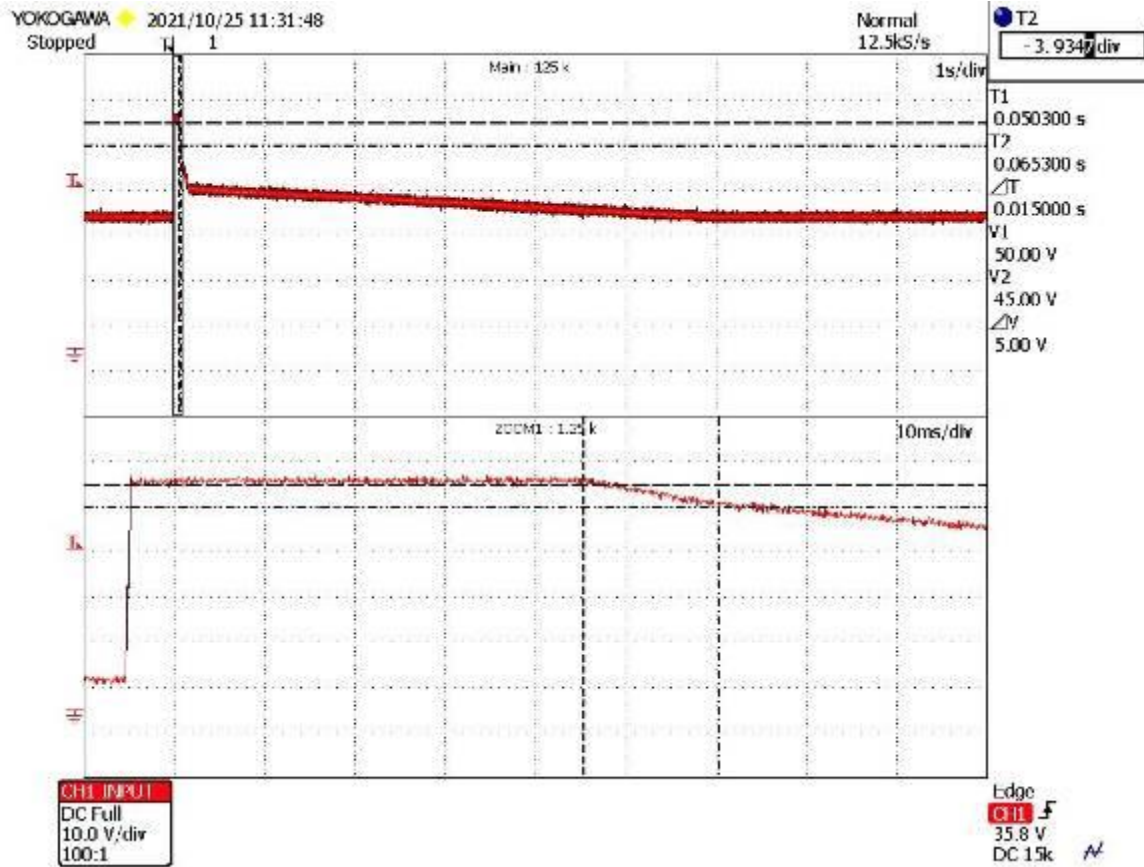


Figure I-96: Condition MMM, waveform verification, second transient to third transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

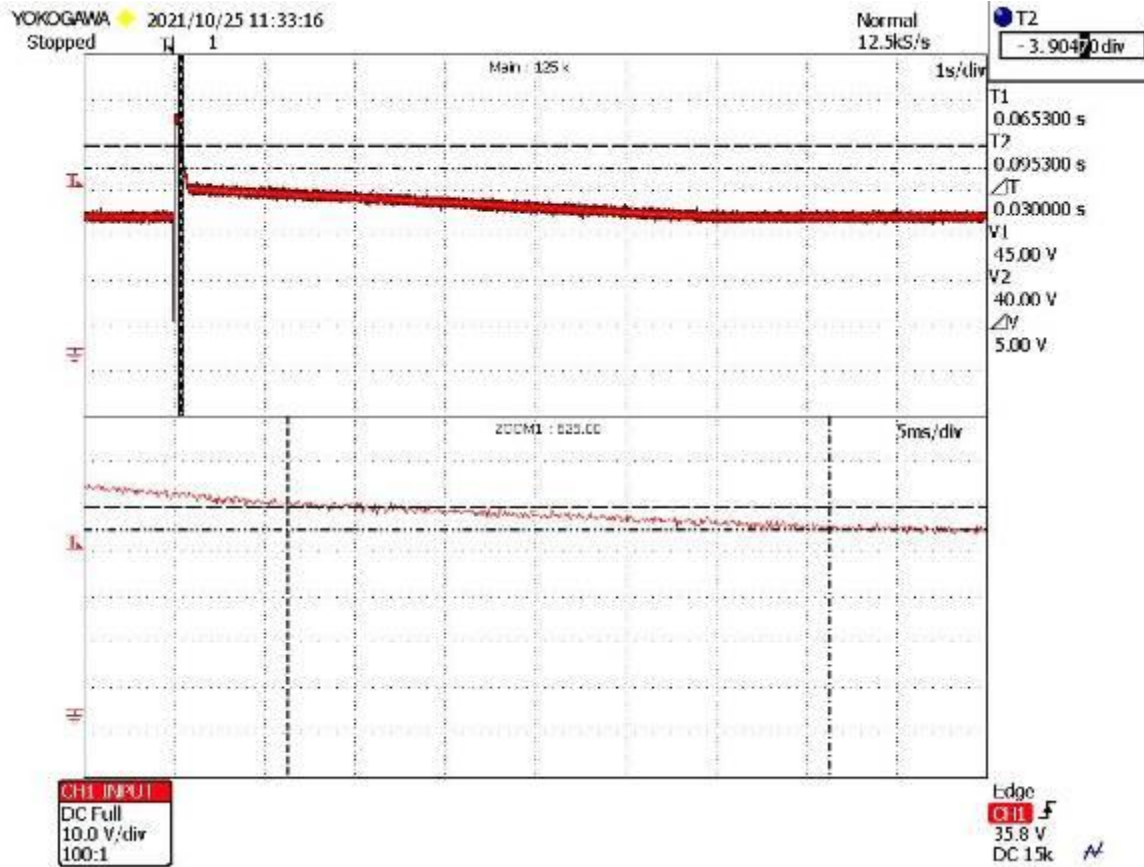


Figure I-97: Condition MMM, waveform verification, third transient to fourth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

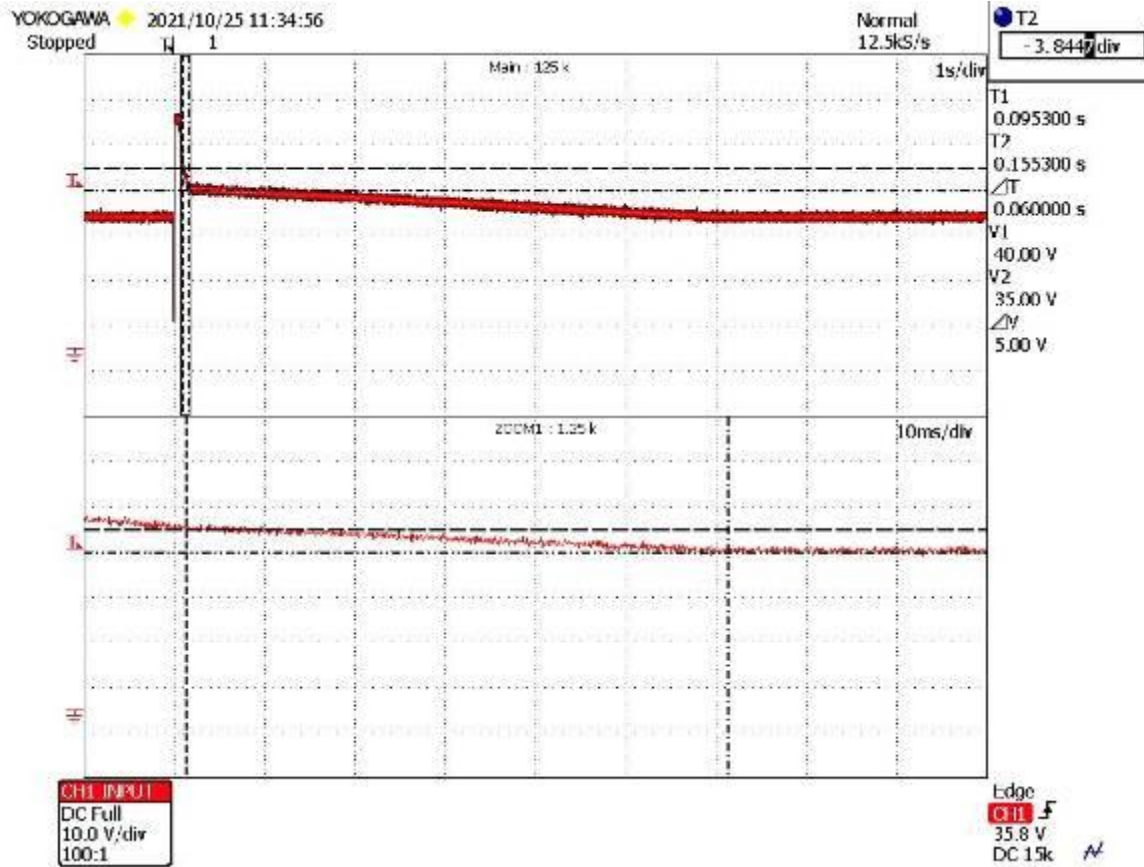


Figure I-98: Condition MMM, waveform verification, fourth transient to fifth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

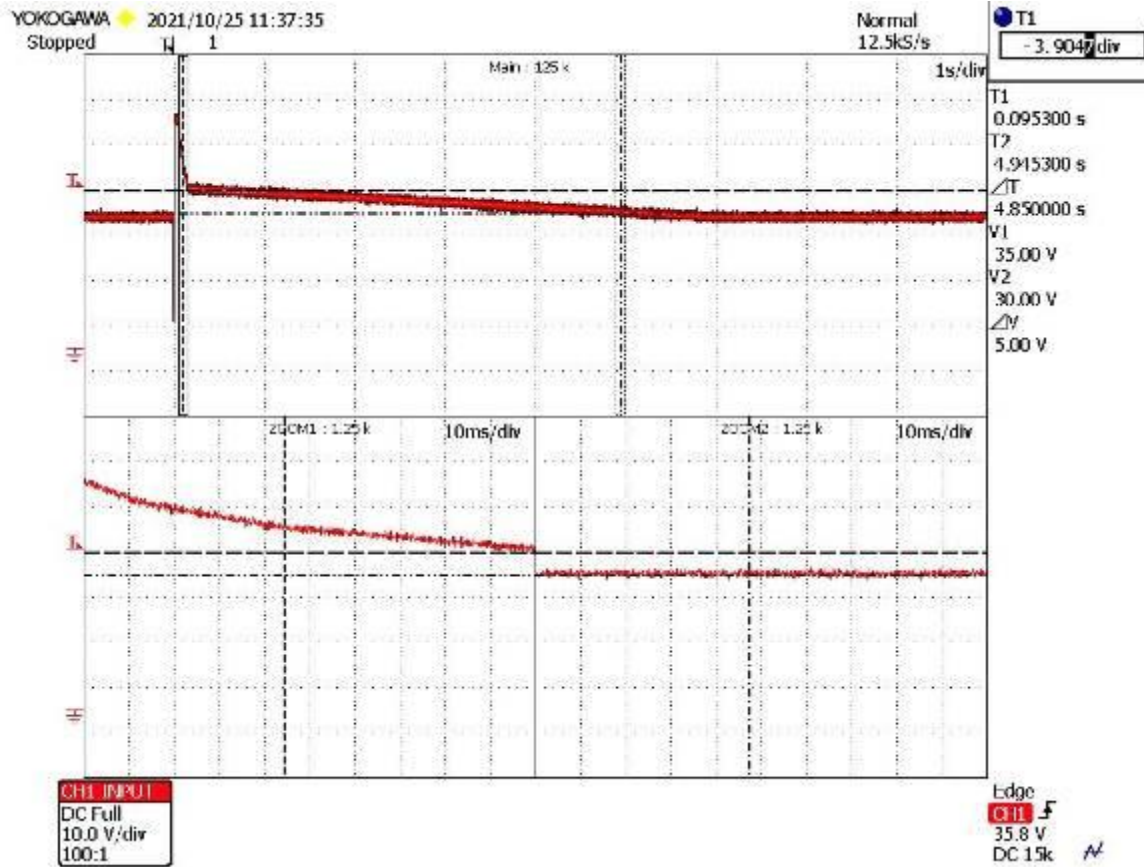


Figure I-99: Condition MMM, waveform verification, fifth transient to sixth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

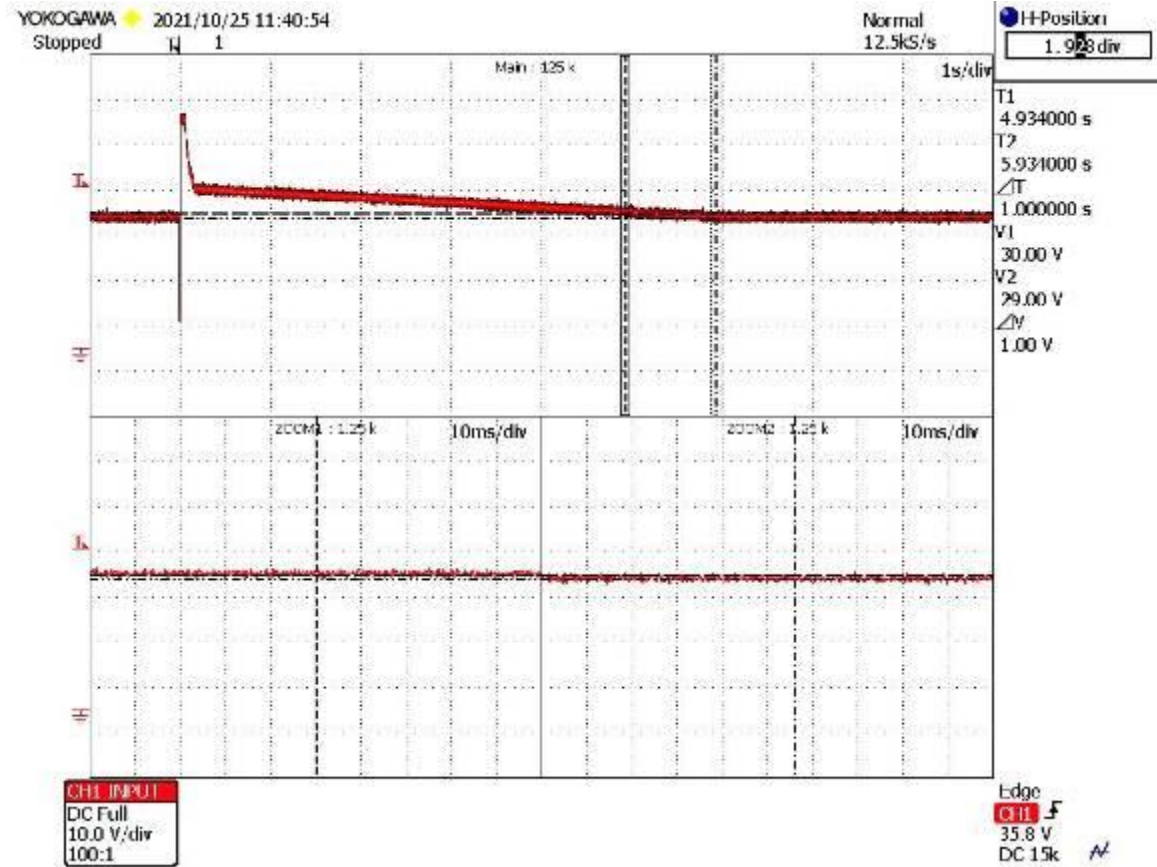


Figure I-100: Condition MMM, waveform verification, sixth transient to steady state fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

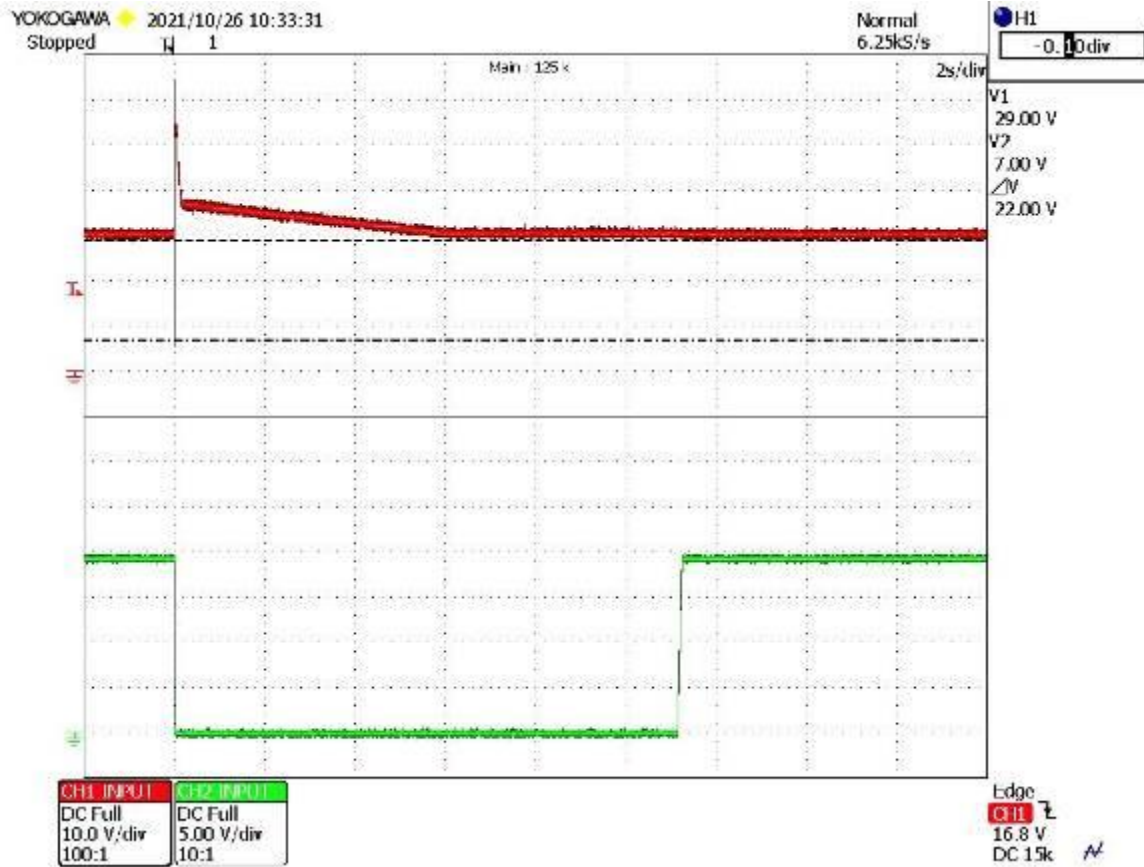


Figure I-101: Condition MMM, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

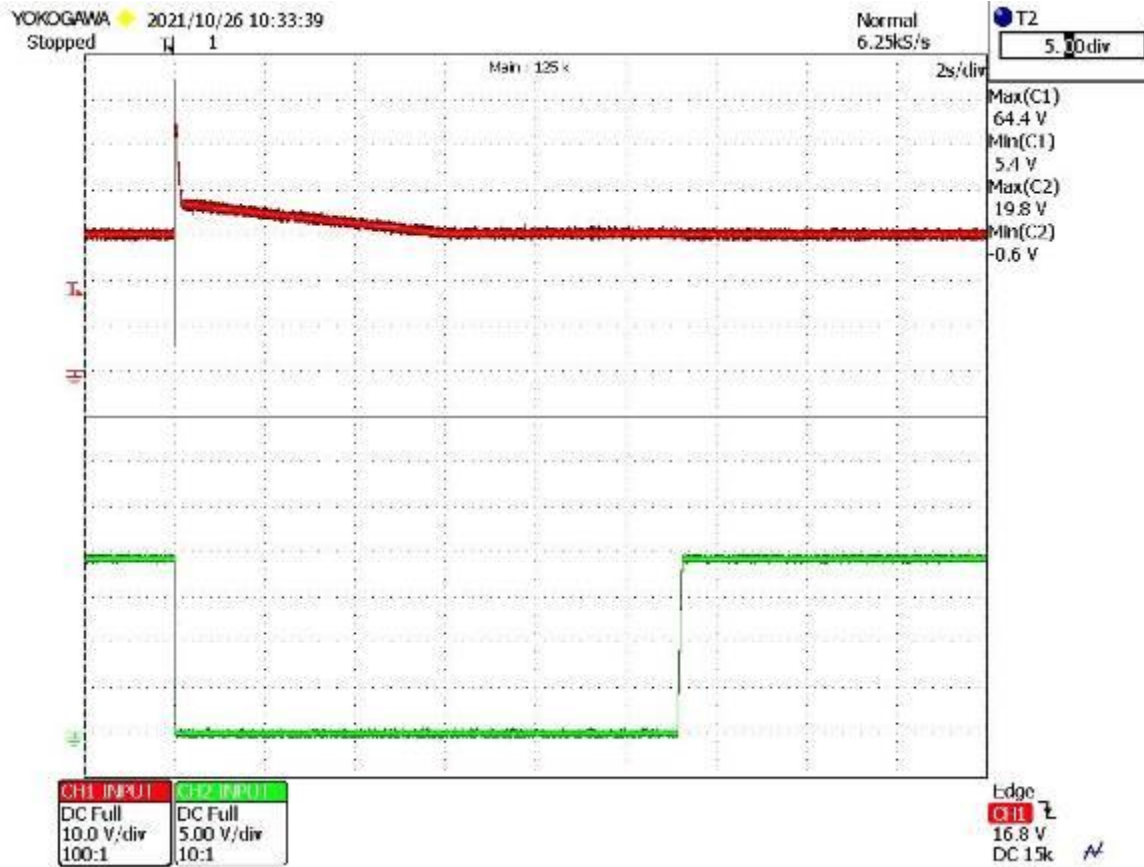


Figure I-102: Condition MMM, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

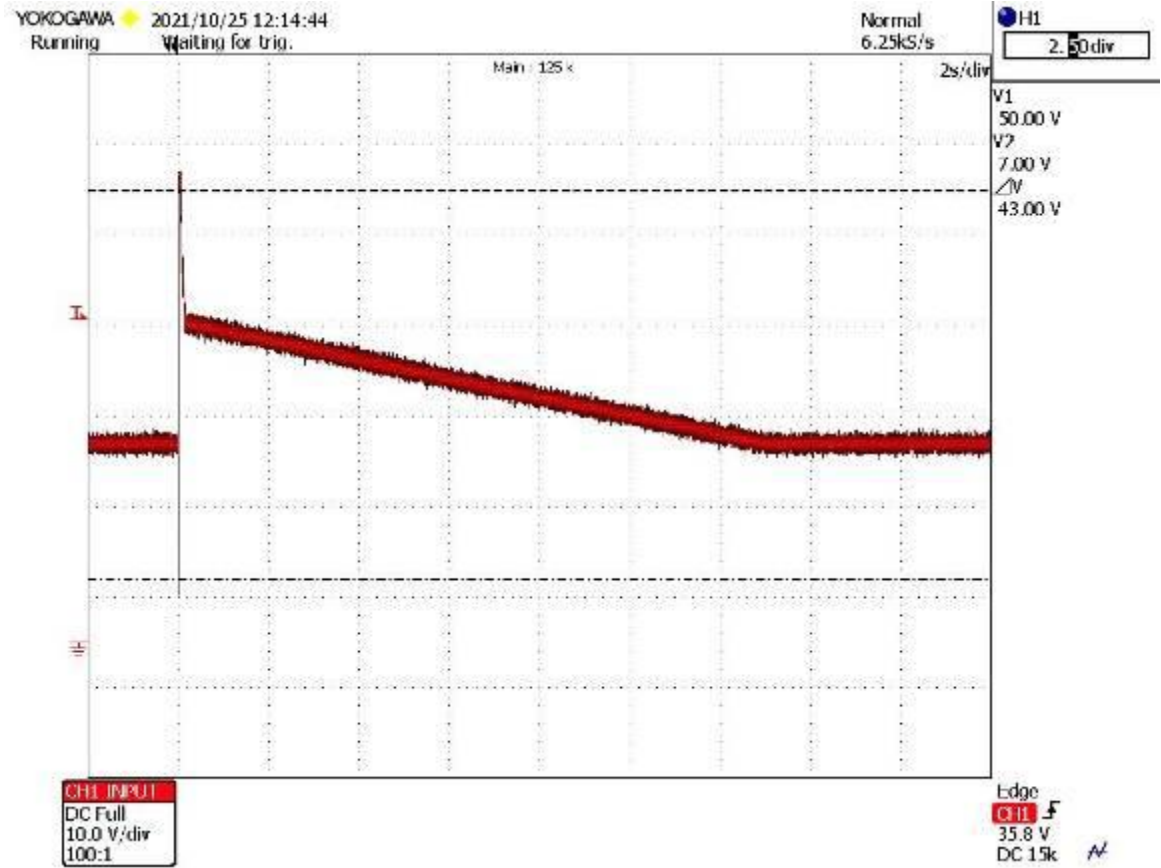


Figure I-103: Condition NNN, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

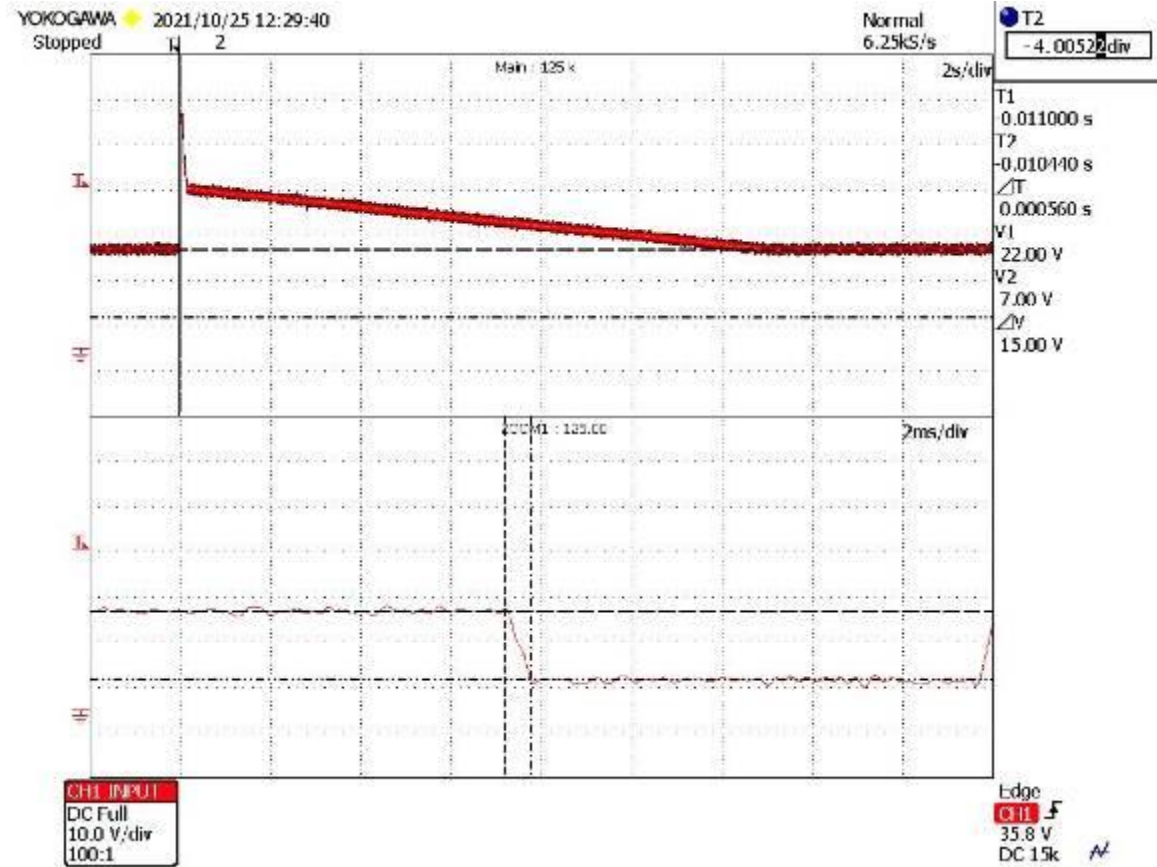


Figure I-104: Condition NNN, waveform verification, first transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

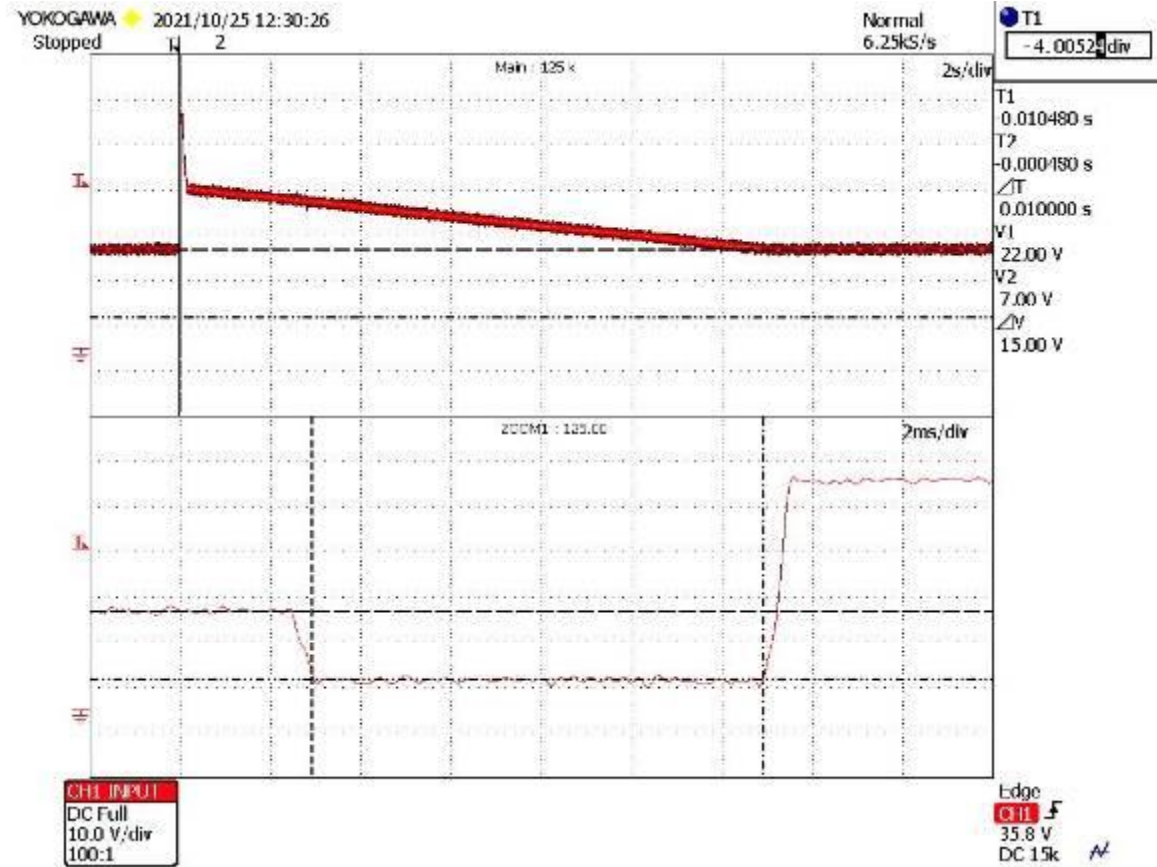


Figure I-105: Condition NNN, waveform verification, first transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

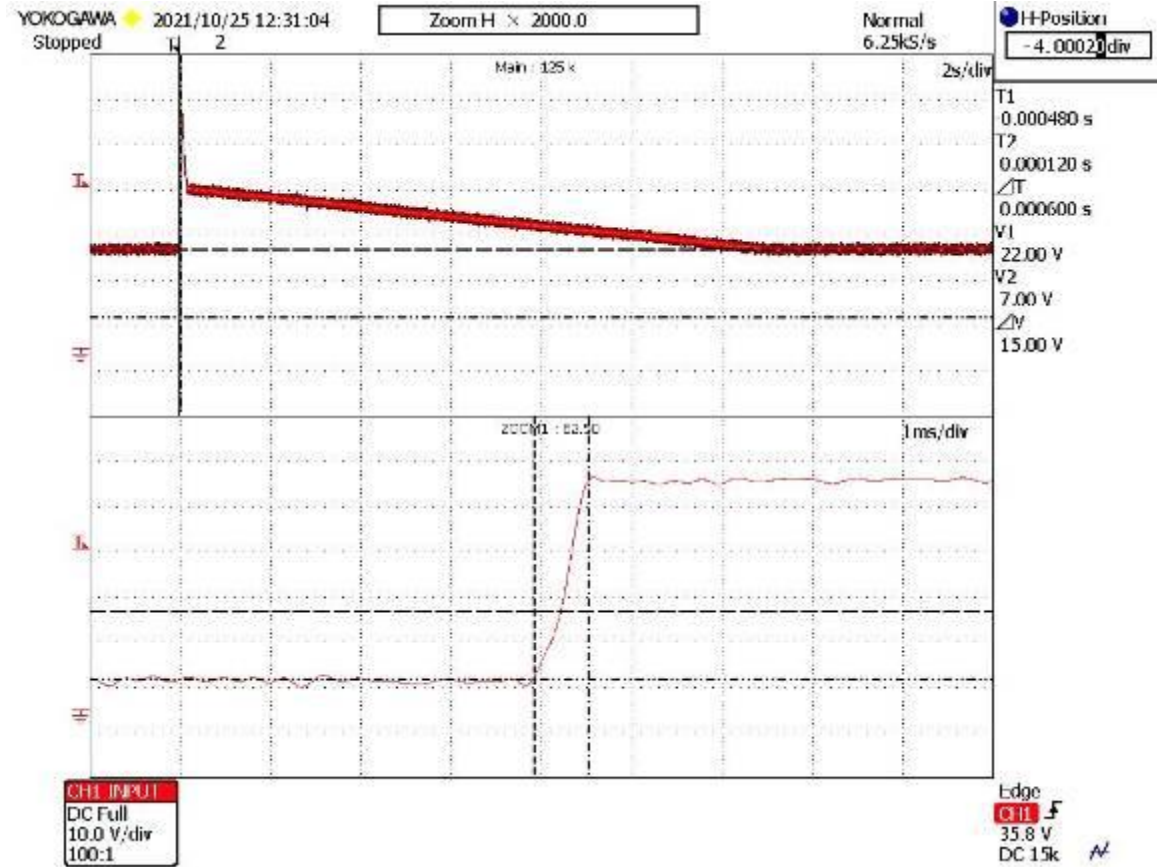


Figure I-106: Condition NNN, waveform verification, first transient to second transient rise time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

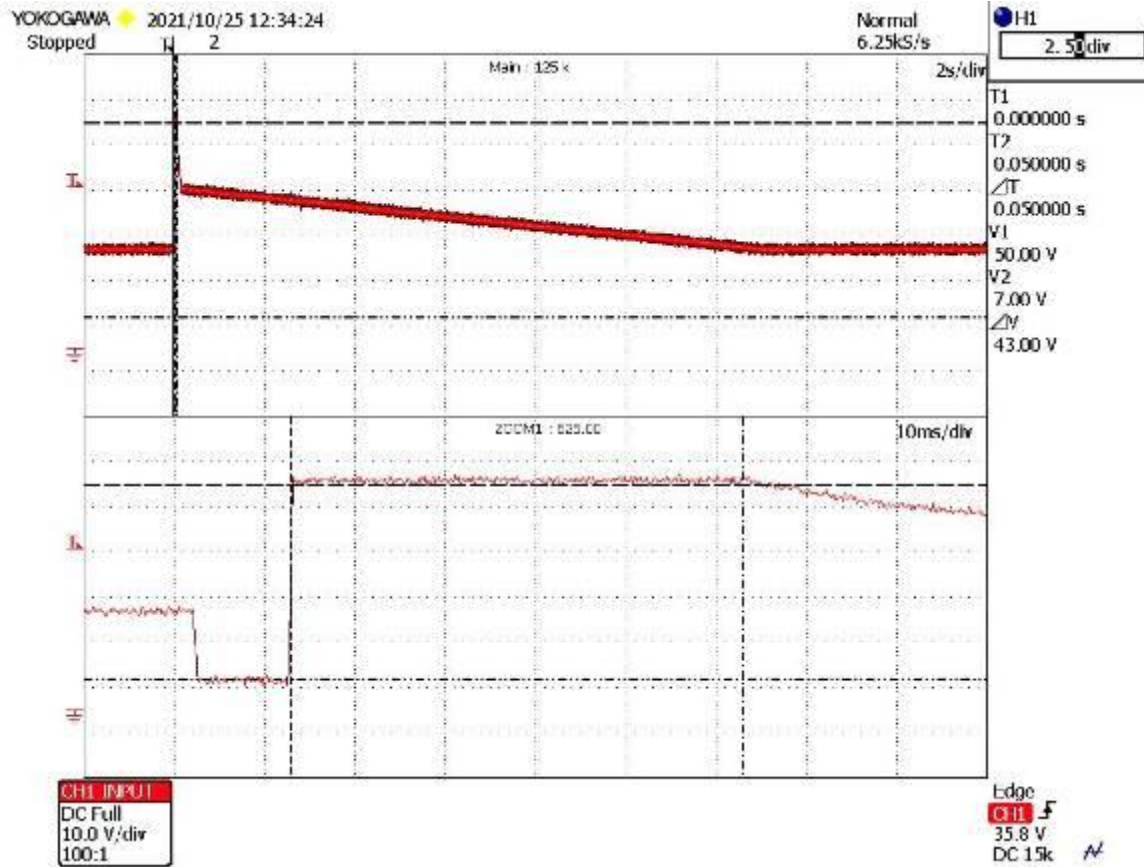


Figure I-107: Condition MMM, waveform verification, second transient duration

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

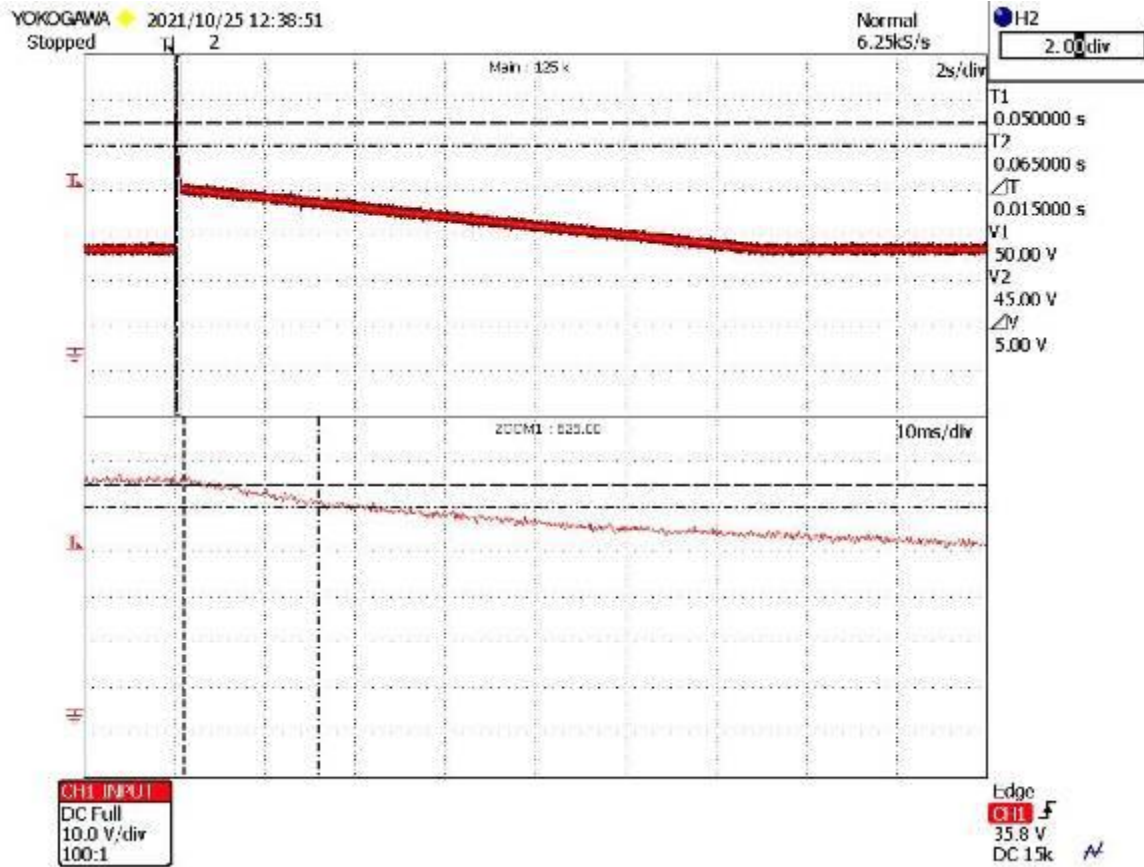


Figure I-108: Condition MMM, waveform verification, second transient to third transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

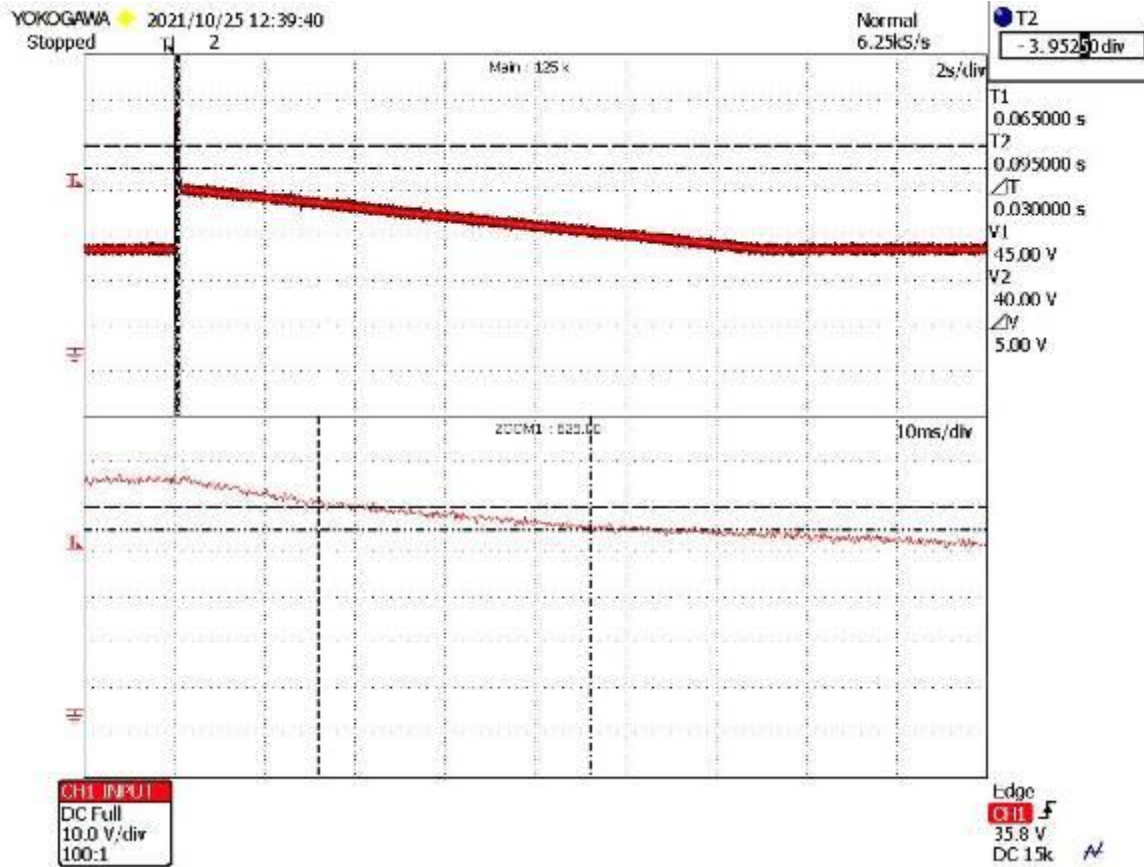


Figure I-109: Condition MMM, waveform verification, third transient to fourth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

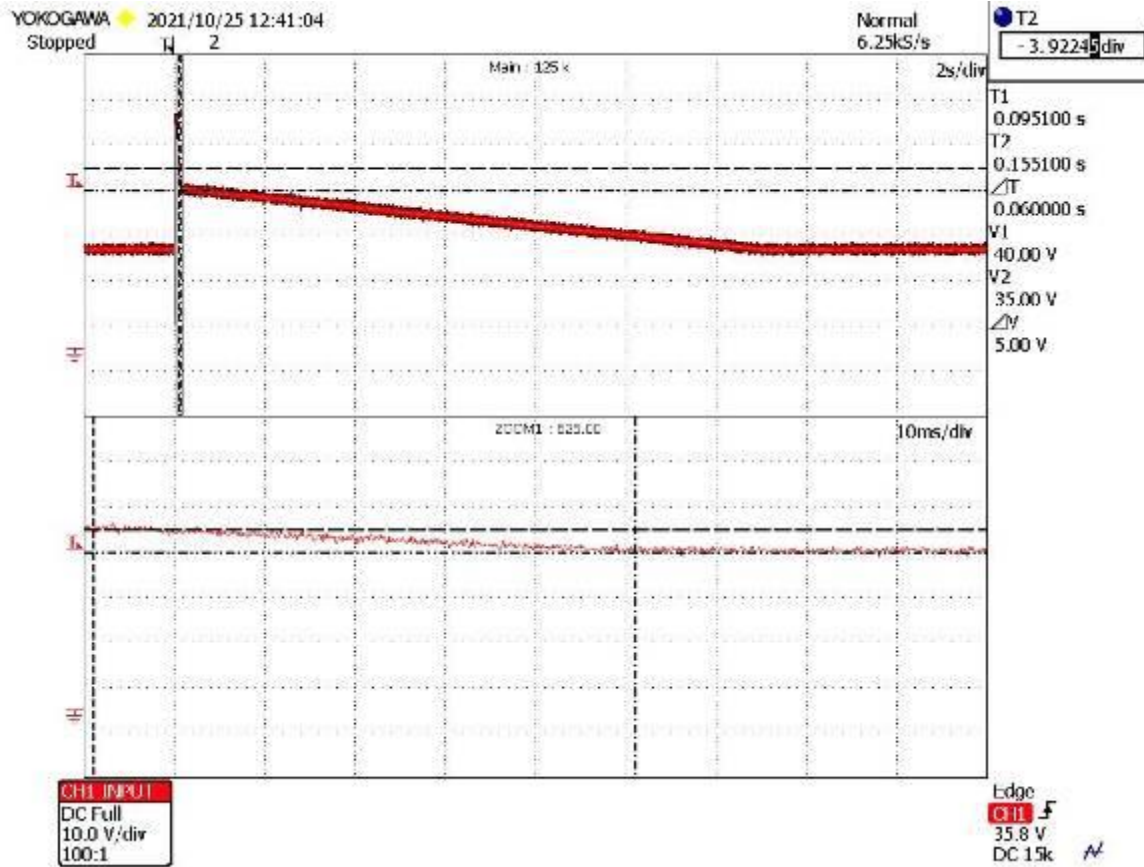


Figure I-110: Condition MMM, waveform verification, fourth transient to fifth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

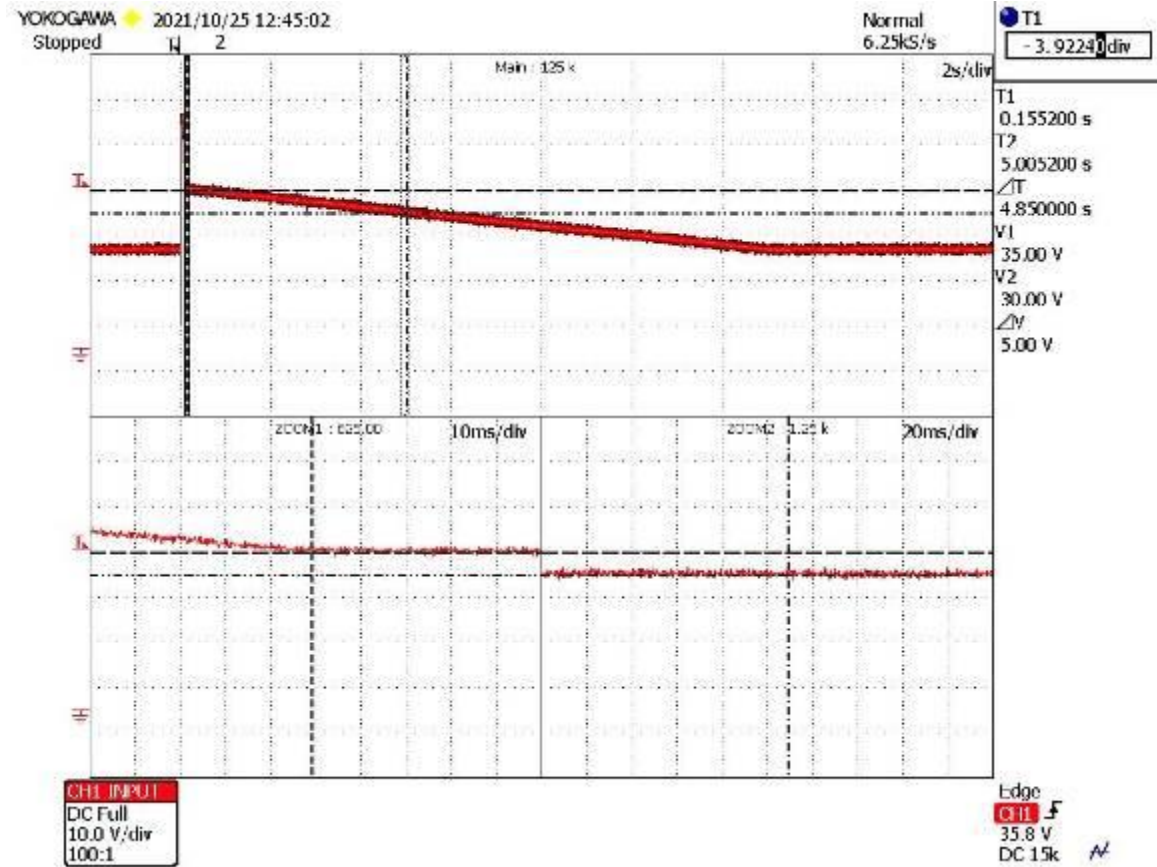


Figure I-111: Condition MMM, waveform verification, fifth transient to sixth transient fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

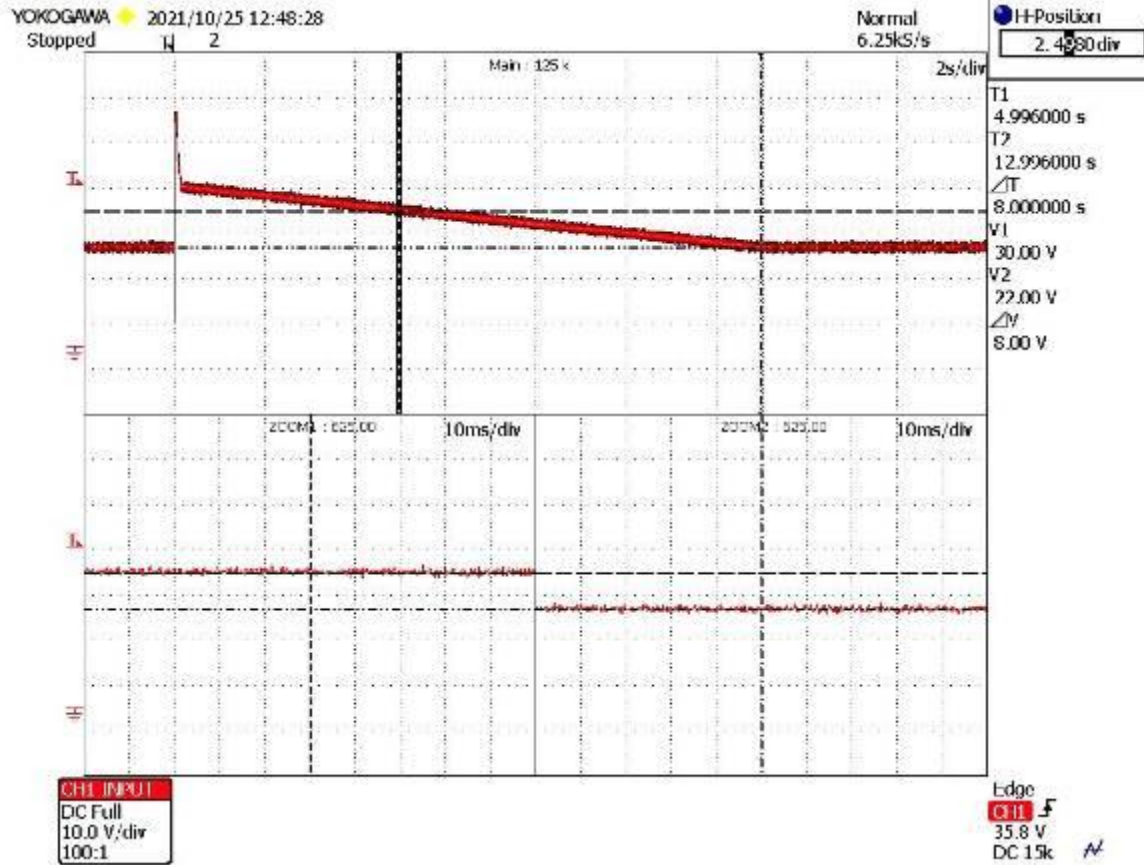


Figure I-112: Condition MMM, waveform verification, sixth transient to steady state fall time

Channel 1 = input voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

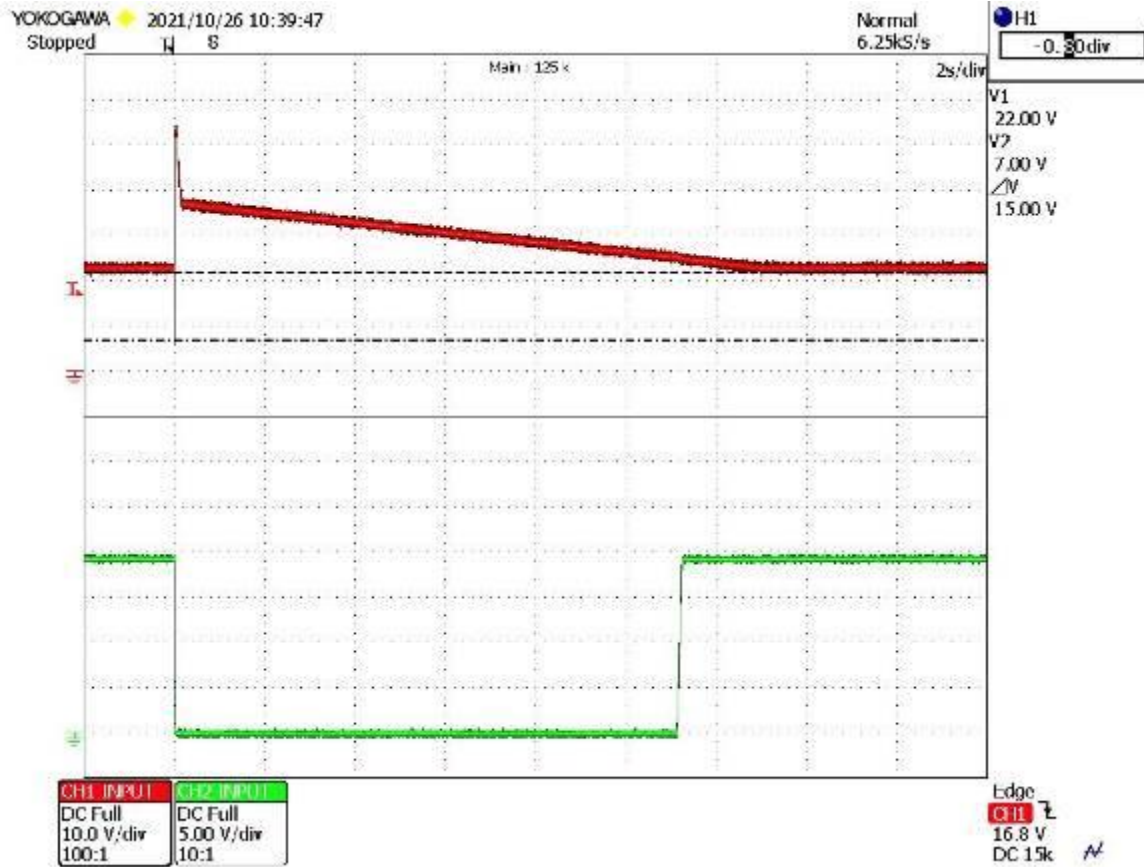


Figure I-113: Condition NNN, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC302 Abnormal Operation, Voltage Transients and G-Overvoltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD-704F, LDC302		
DUT description	DC/DC Converter	Test date(s)	10/21/2021 to 10/26/2021	Location	Groundplane G2

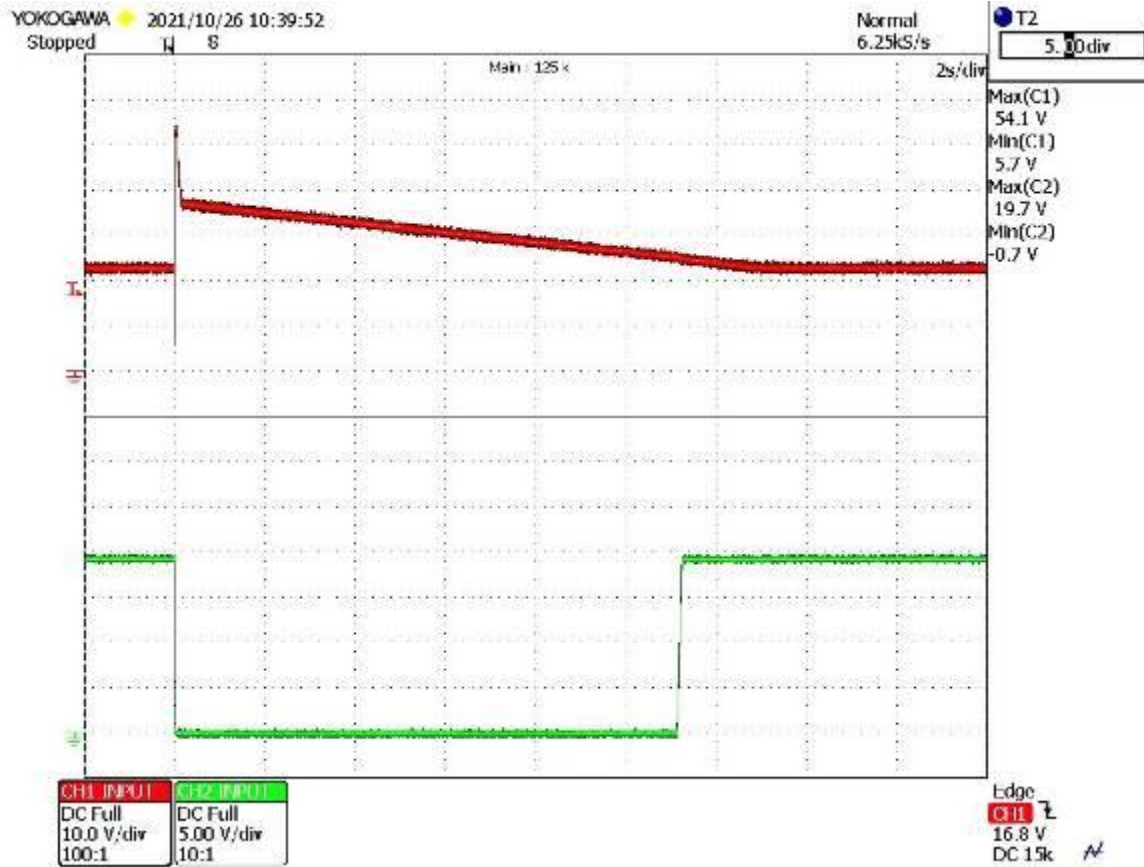


Figure I-114: Condition NNN, test application with minimum and G-maximum measurement

Channel 1 = input voltage, channel 2 = output voltage

Appendix H: LDC501 Starting Voltage Transients



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-176	Amplifier	N/A	310-048	Arbitrary waveform generator	N/A	
300-034	Oscilloscope	X	230-130	Differential probe	X	
230-123	Differential probe	X	230-124	Current probe	X	
210-059	Multimeter	X	380-549	DC power supply	N/A	
400-060	Stopwatch	X				

LDC501 Starting Operation, Starting Voltage Transients Test results					
Condition	EUT mode	Nominal voltage	Repetitions	Result	Notes
AA	N/A	29 Vdc	N/A	N/A	Figures H-1 through H-3, waveform verification
AA	Powered	29 Vdc	5	Pass	Figures H-4 and H-5



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph H-1: EUT identification



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph H-2: Test setup, waveform verification



Data sheet
LDC501 Starting Operation, Starting Voltage Transients

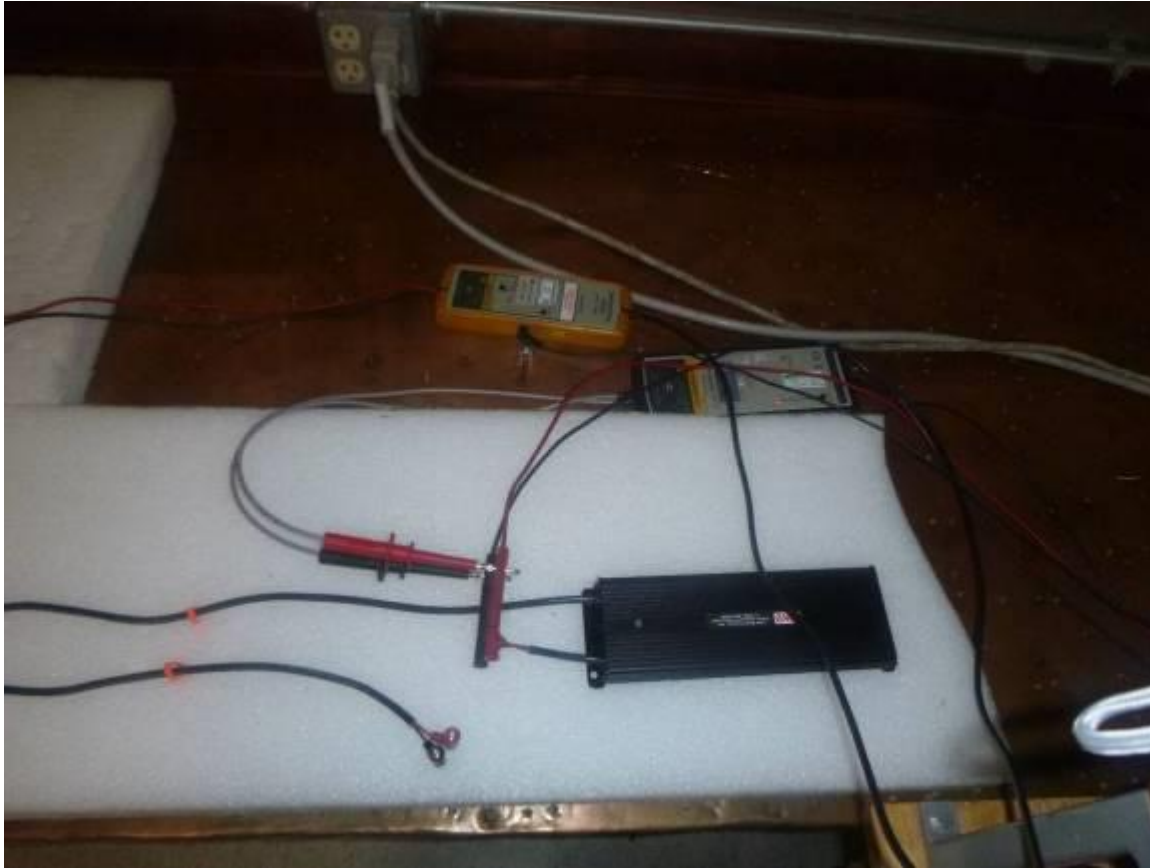
Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph H-3: Test setup, waveform verification

**Data sheet****LDC501 Starting Operation, Starting Voltage Transients**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph H-4: Test setup



Data sheet
LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph H-5: Test setup



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

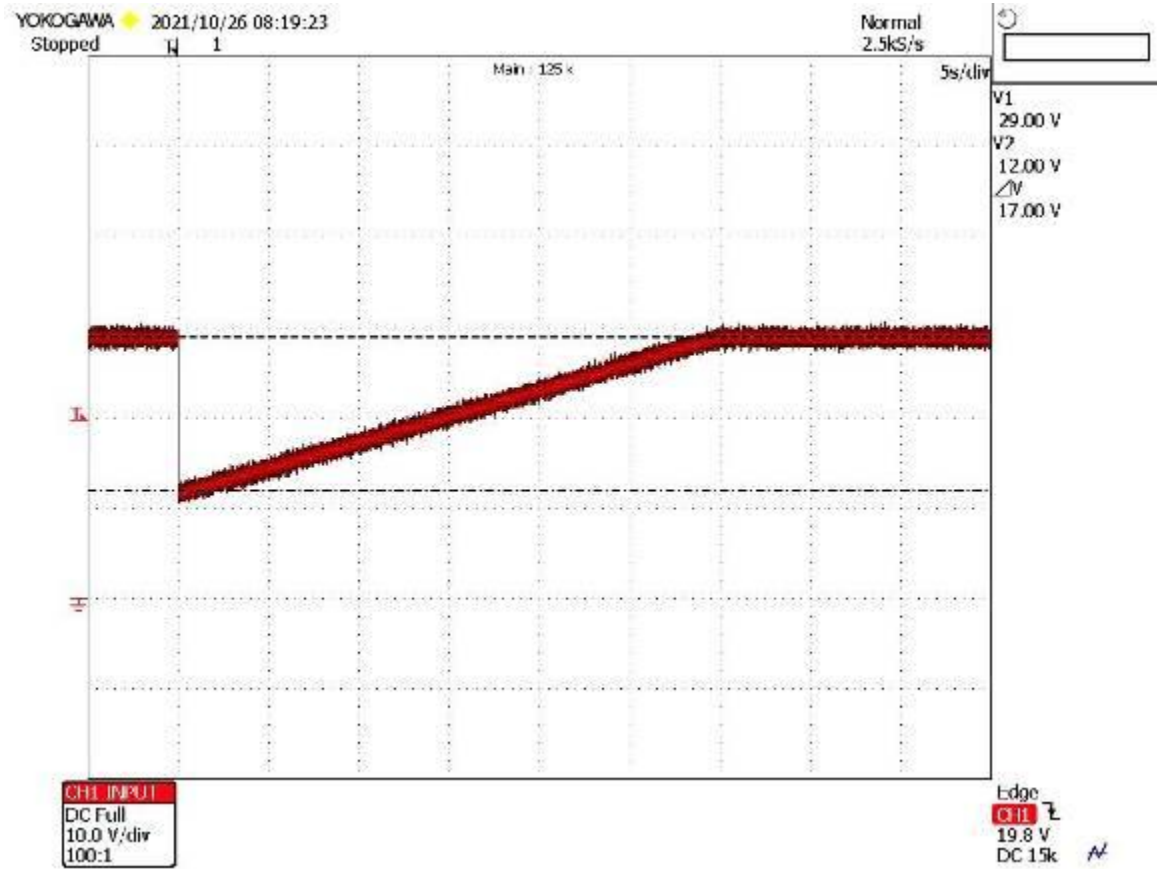


Figure H-1: Condition AA, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

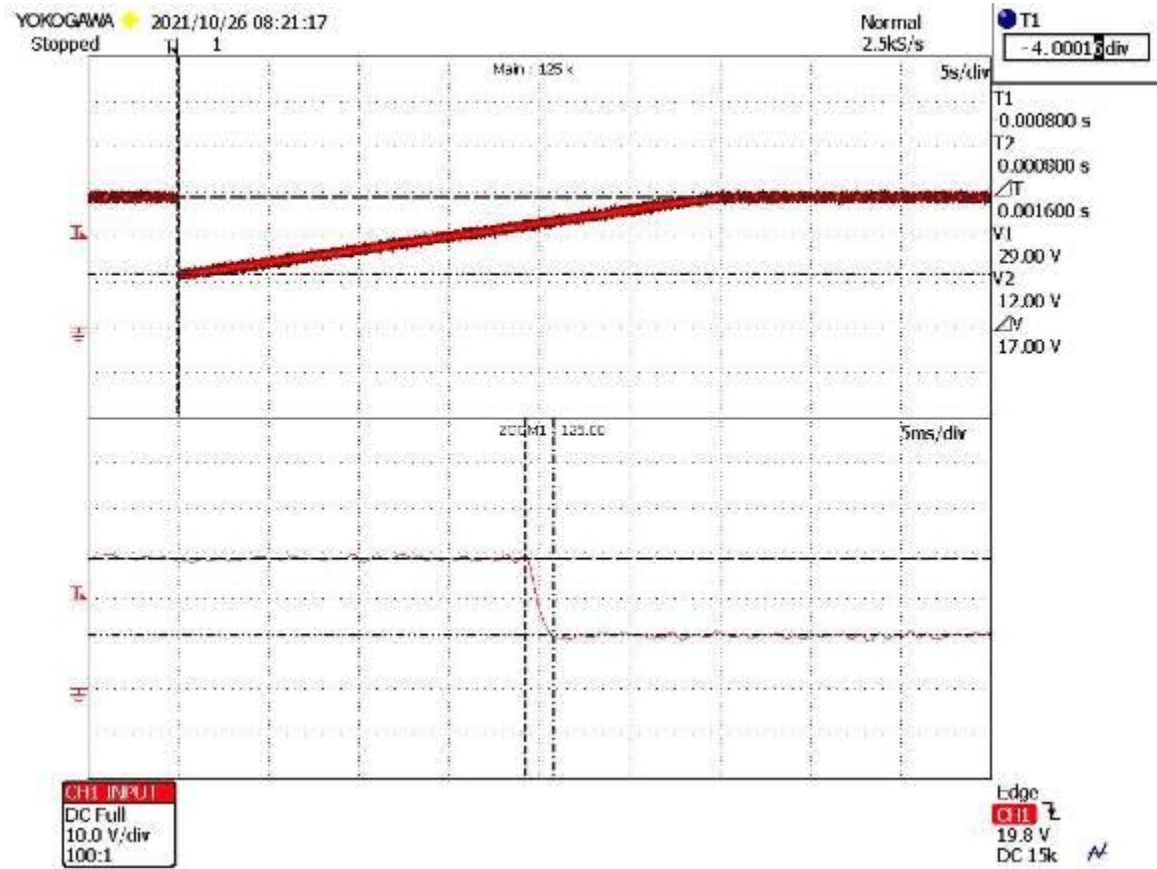


Figure H-2: Condition AA, waveform verification, transient fall

Channel 1 = input voltage



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

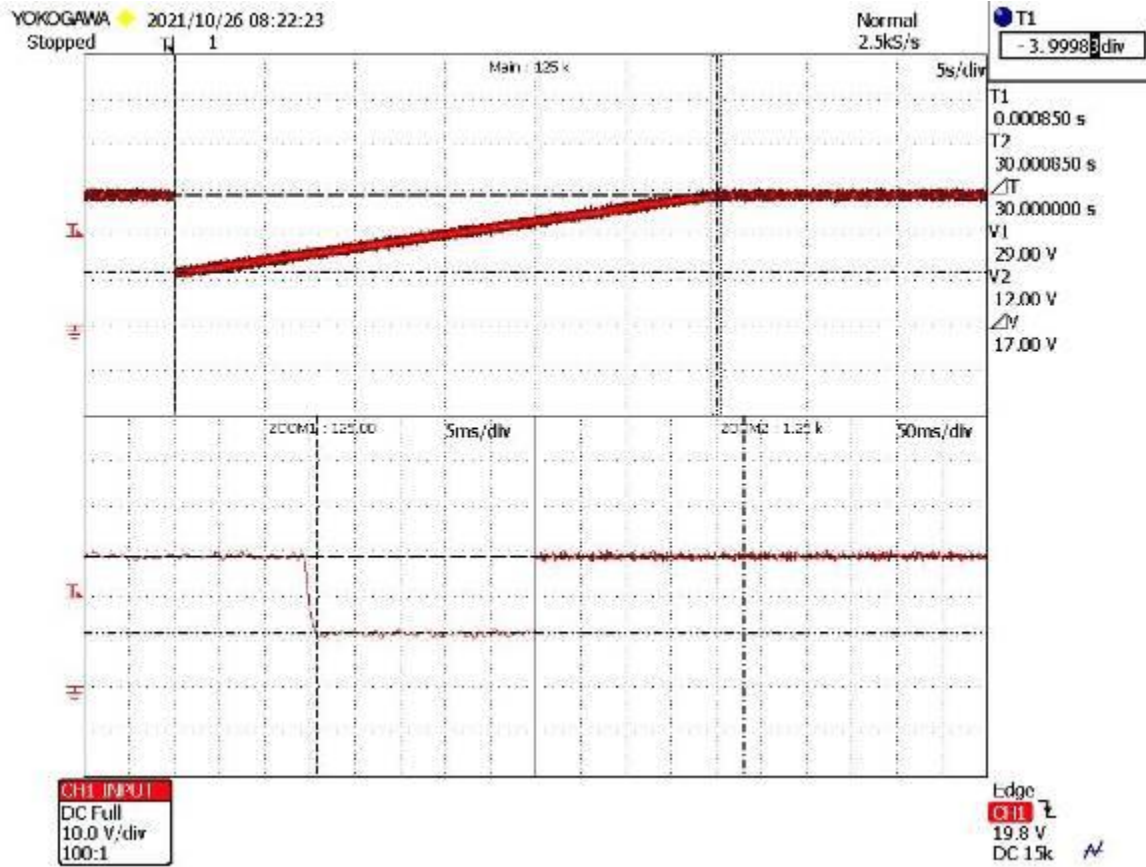


Figure H-3: Condition AA, waveform verification, transient rise

Channel 1 = input voltage



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

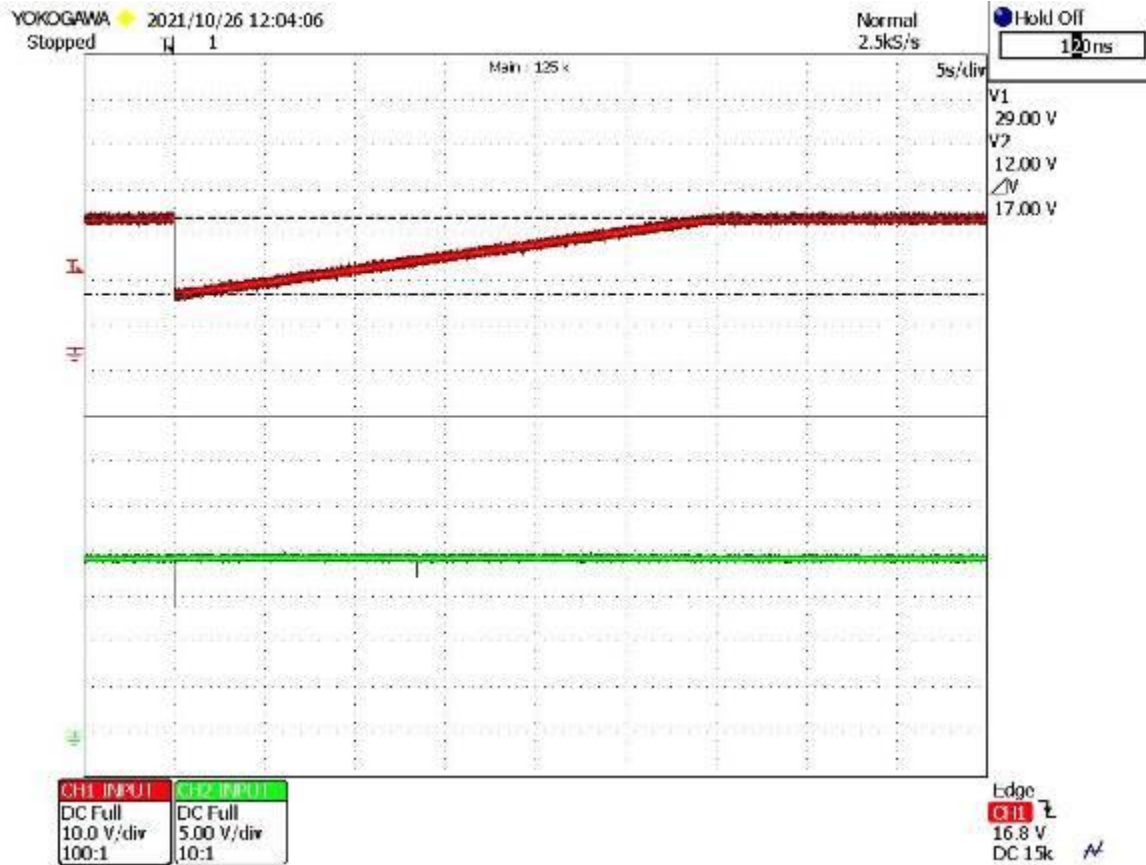


Figure H-4: Condition AA, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC501 Starting Operation, Starting Voltage Transients

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC501		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

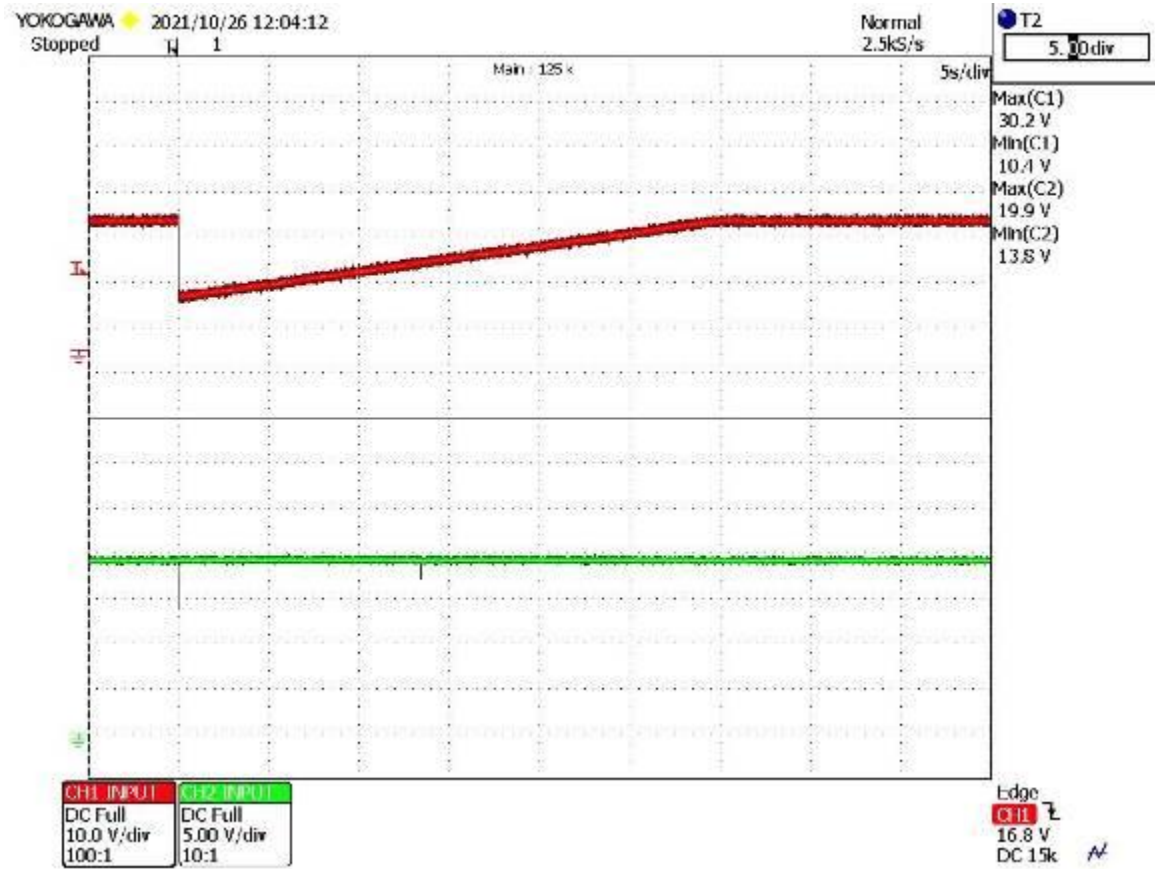


Figure H-5: Condition AA, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage

Appendix I: LDC601 Power Failure



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
350-176	Amplifier	N/A	310-048	Arbitrary waveform generator	N/A	
300-034	Oscilloscope	X	230-130	Differential probe	X	
230-123	Differential probe	X	230-124	Current probe	X	
210-059	Multimeter	X	380-549	DC power supply	N/A	

LDC601 Power Failure Test results							CTD = customer to determine
Condition	Nominal voltage	Duration	EUT mode	Repetitions	Result	Notes	
A	28 Vdc	100 mSec	N/A	N/A	N/A	Figures I-1 through I-4, waveform verification	
A	28 Vdc	100 mSec	Powered	5	CTD	Figures I-5 and I-6, power loss noted; recovered after transient pulse.	
B	28 Vdc	500 mSec	N/A	N/A	N/A	Figures I-7 through I-10, waveform verification	
B	28 Vdc	500 mSec	Powered	5	CTD	Figures I-11 and I-12, power loss noted; recovered after transient pulse.	
C	28 Vdc	3 Sec	N/A	N/A	N/A	Figures I-13 through I-16, waveform verification	
C	28 Vdc	3 Sec	Powered	5	CTD	Figures I-17 and I-18, power loss noted; recovered after transient pulse.	
D	28 Vdc	7 Sec	N/A	N/A	N/A	Figures I-19 through I-22, waveform verification	
D	28 Vdc	7 Sec	Powered	5	CTD	Figures I-23 and I-24, power loss noted; recovered after transient pulse.	



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph I-1: EUT identification



Data sheet
LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph I-2: Test setup, waveform verification



Data sheet
LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

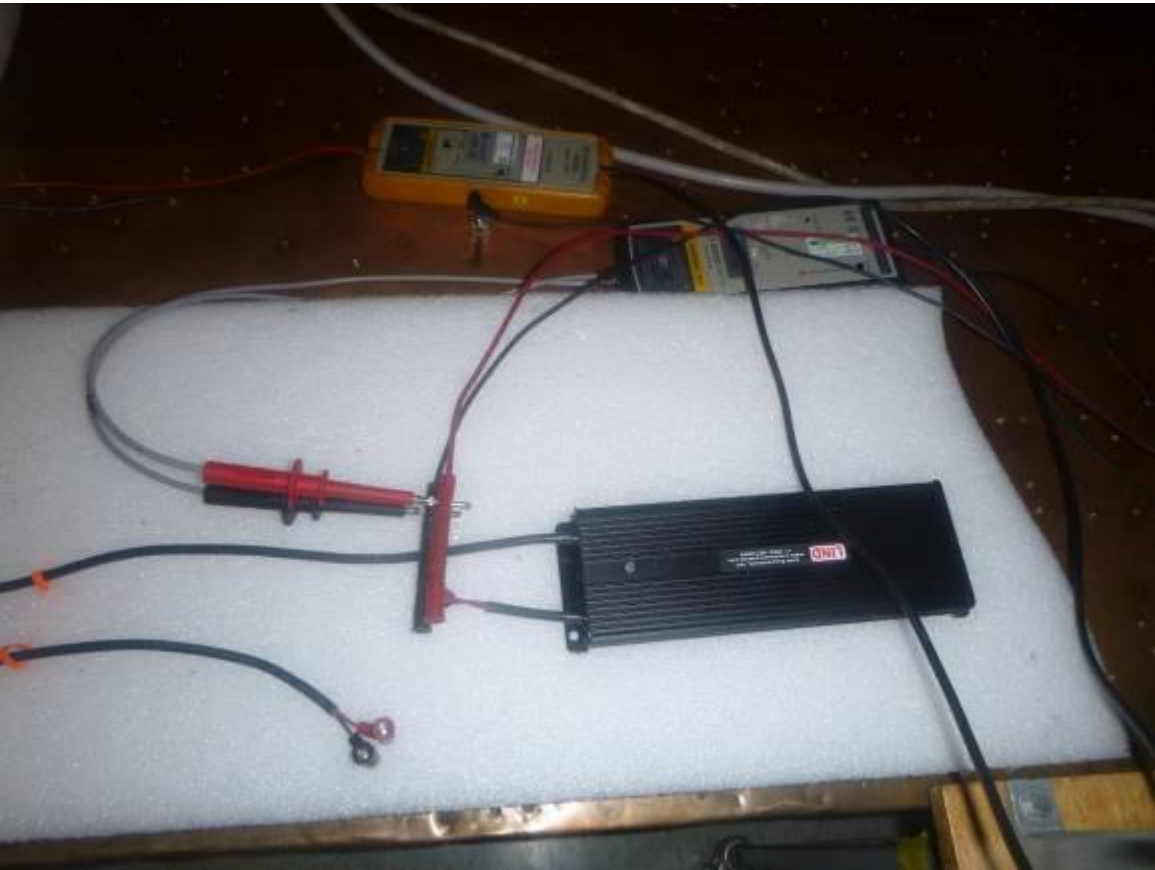


Photograph I-3: Test setup, waveform verification



Data sheet
LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph I-4: Test setup



Data sheet
LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Photograph I-5: Test setup



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

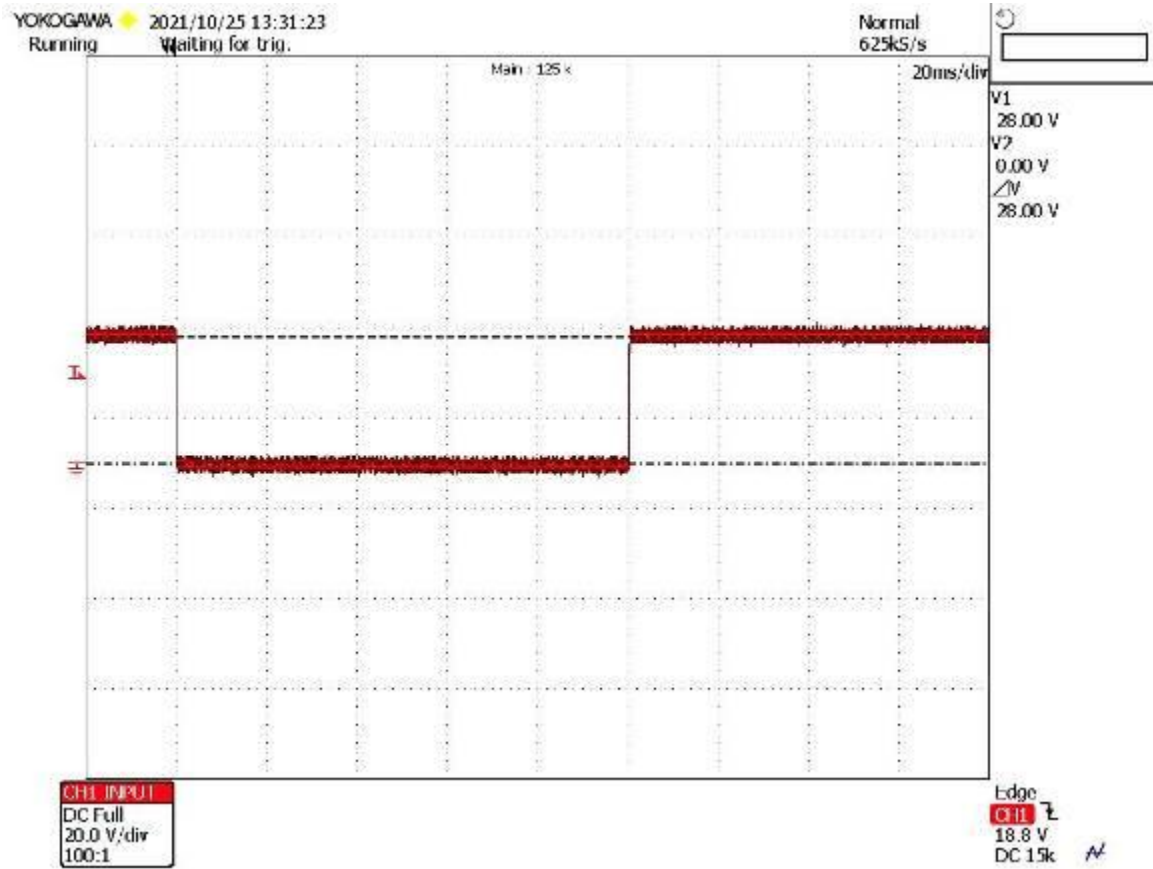


Figure I-1: Condition A, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

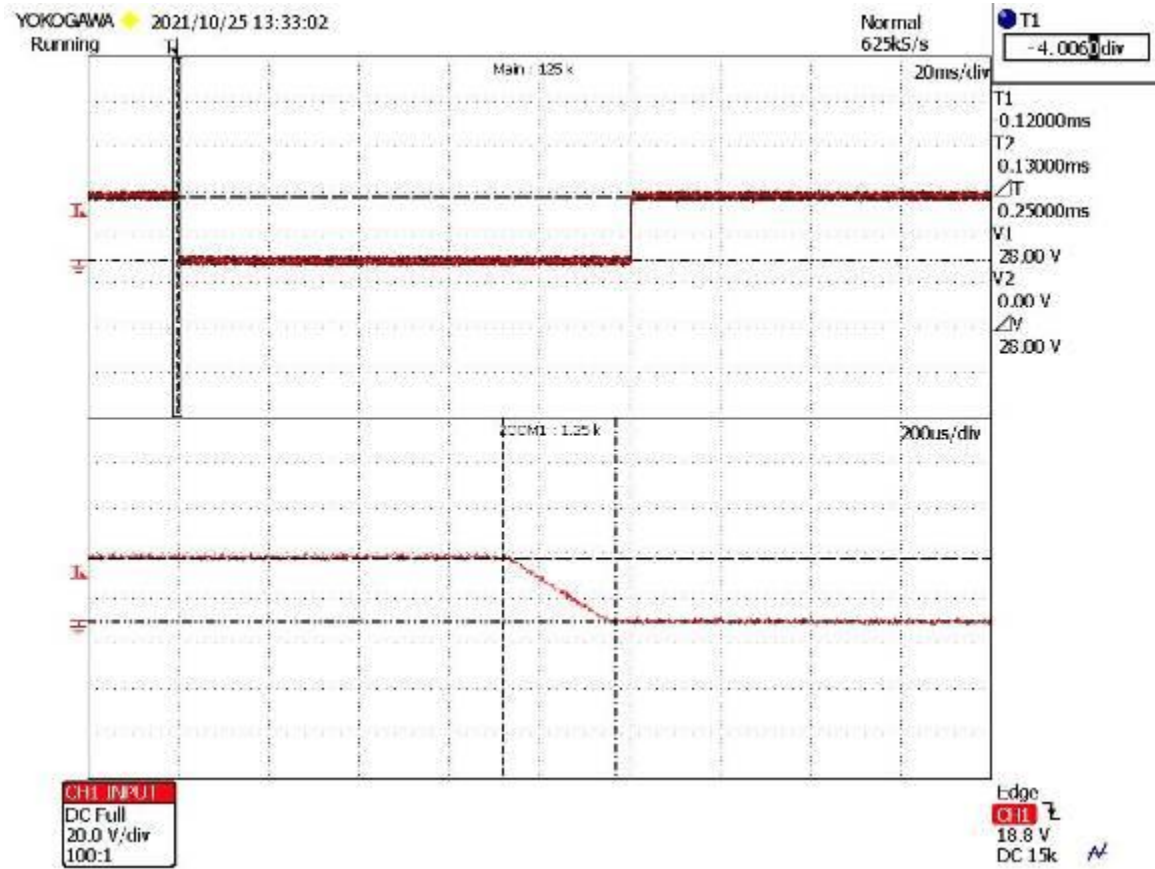


Figure I-2: Condition A, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

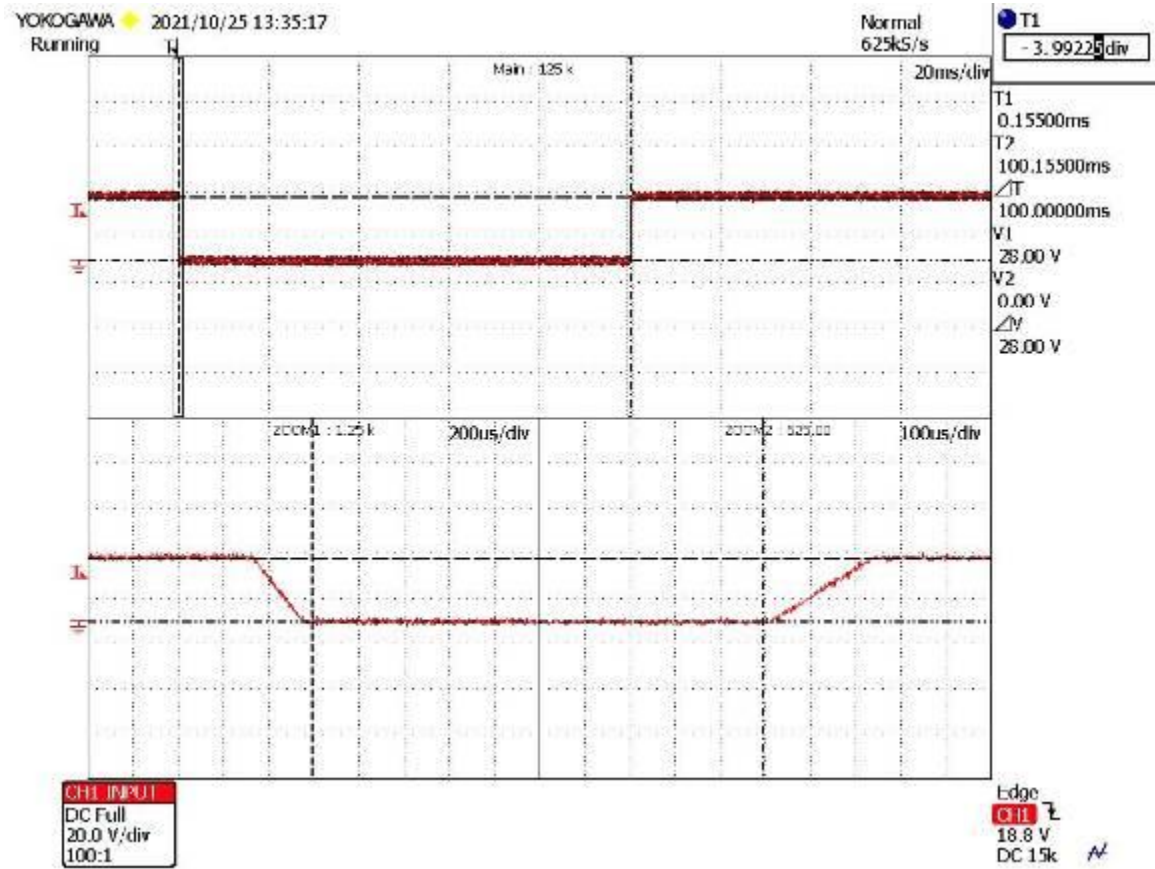


Figure I-3: Condition A, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

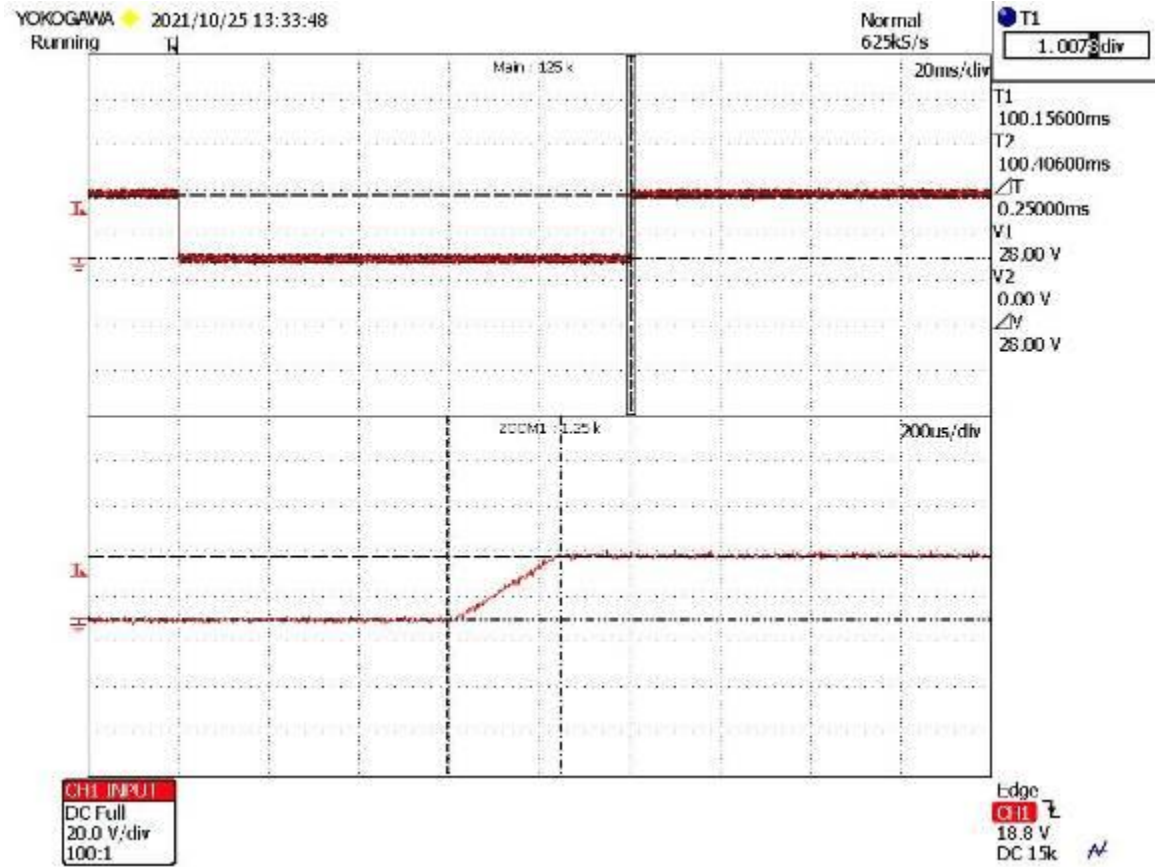


Figure I-4: Condition A, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet **LDC601 Power Failure**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

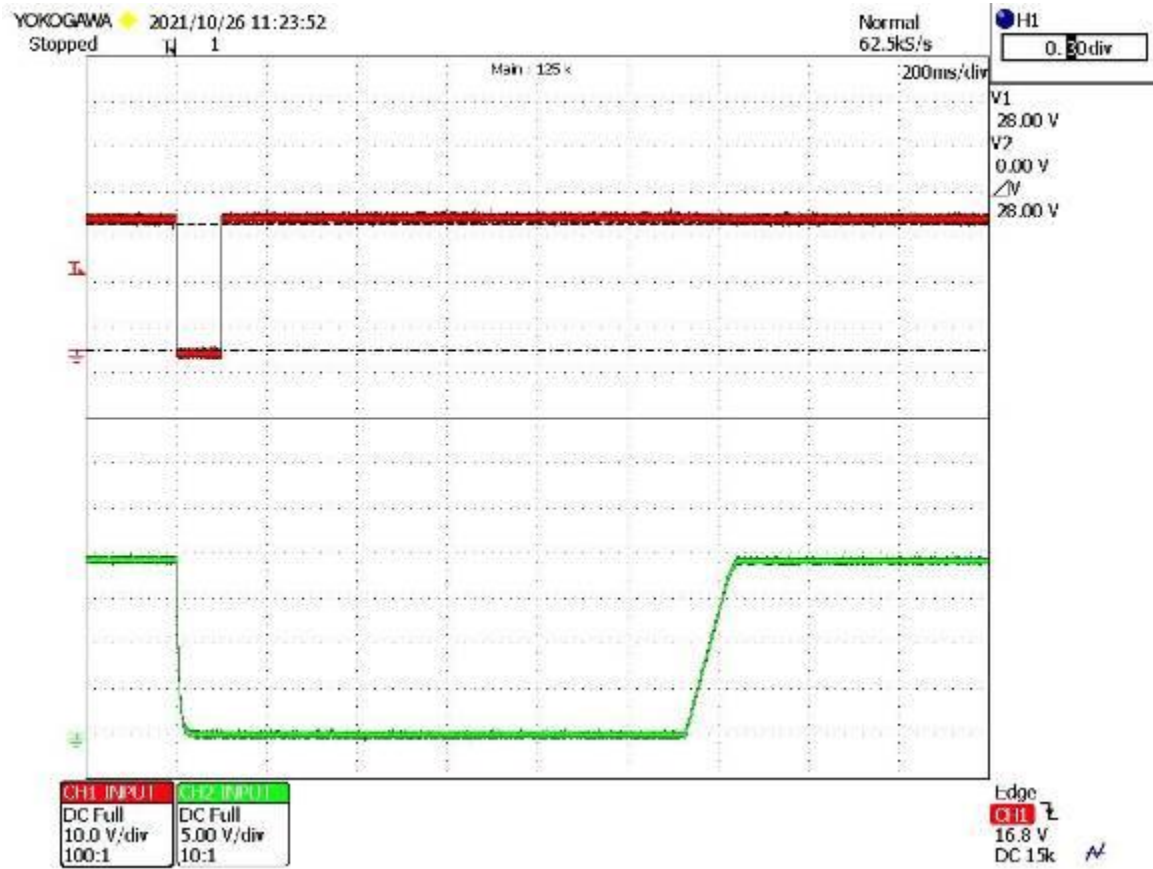


Figure I-5: Condition A, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

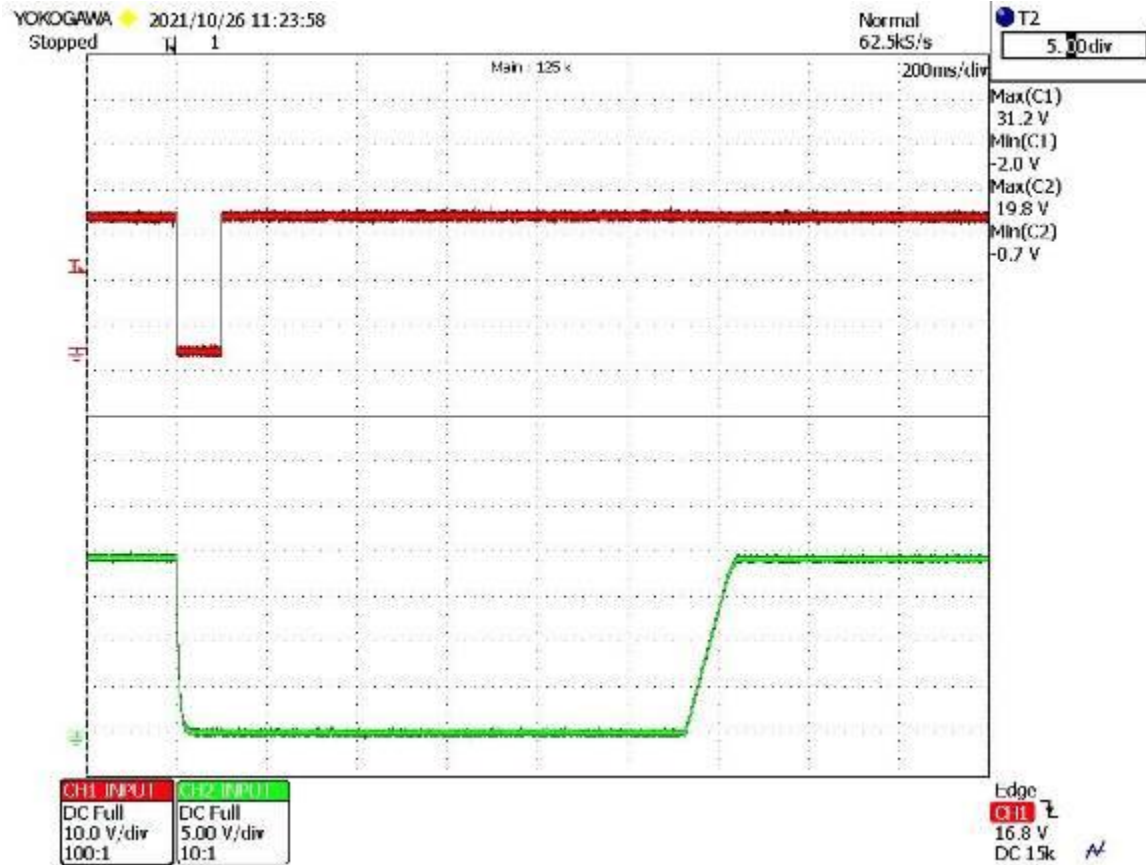
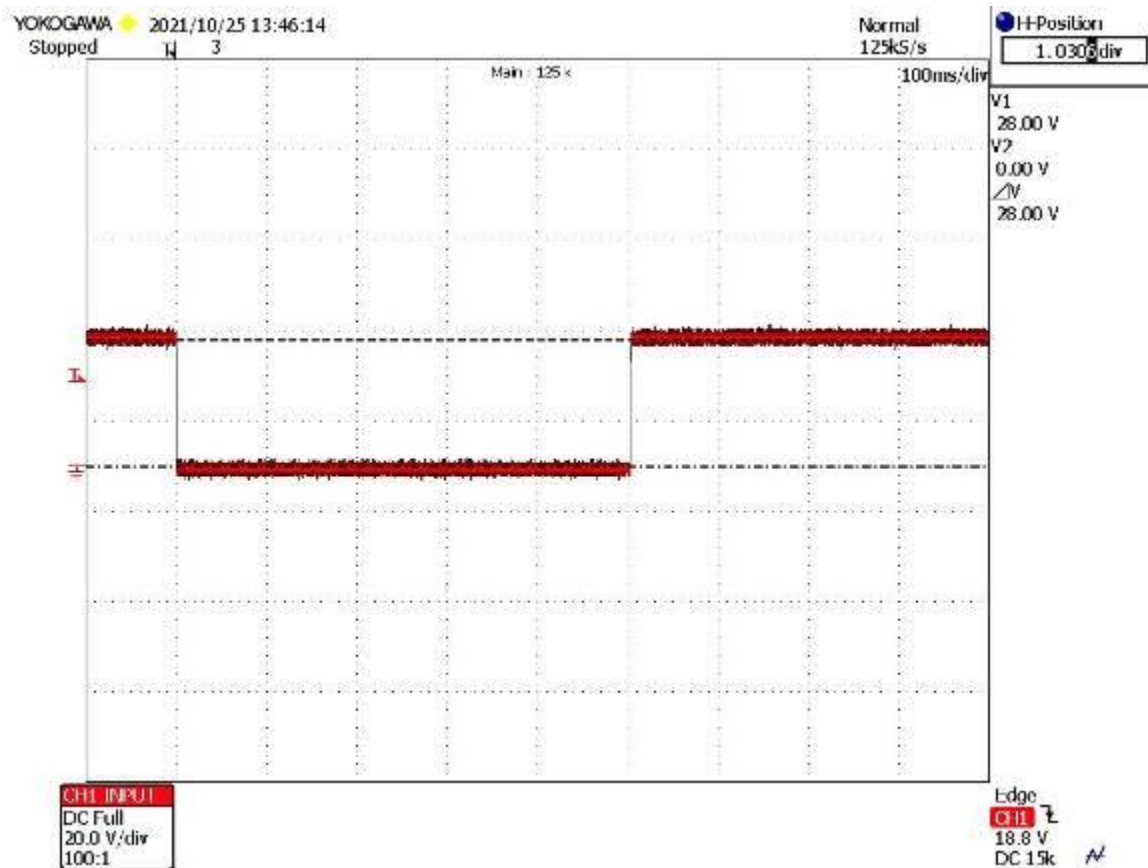


Figure I-6: Condition A, test application with minimum and maximum measurement

Channel 1 = input voltage, Channel 2 = output voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

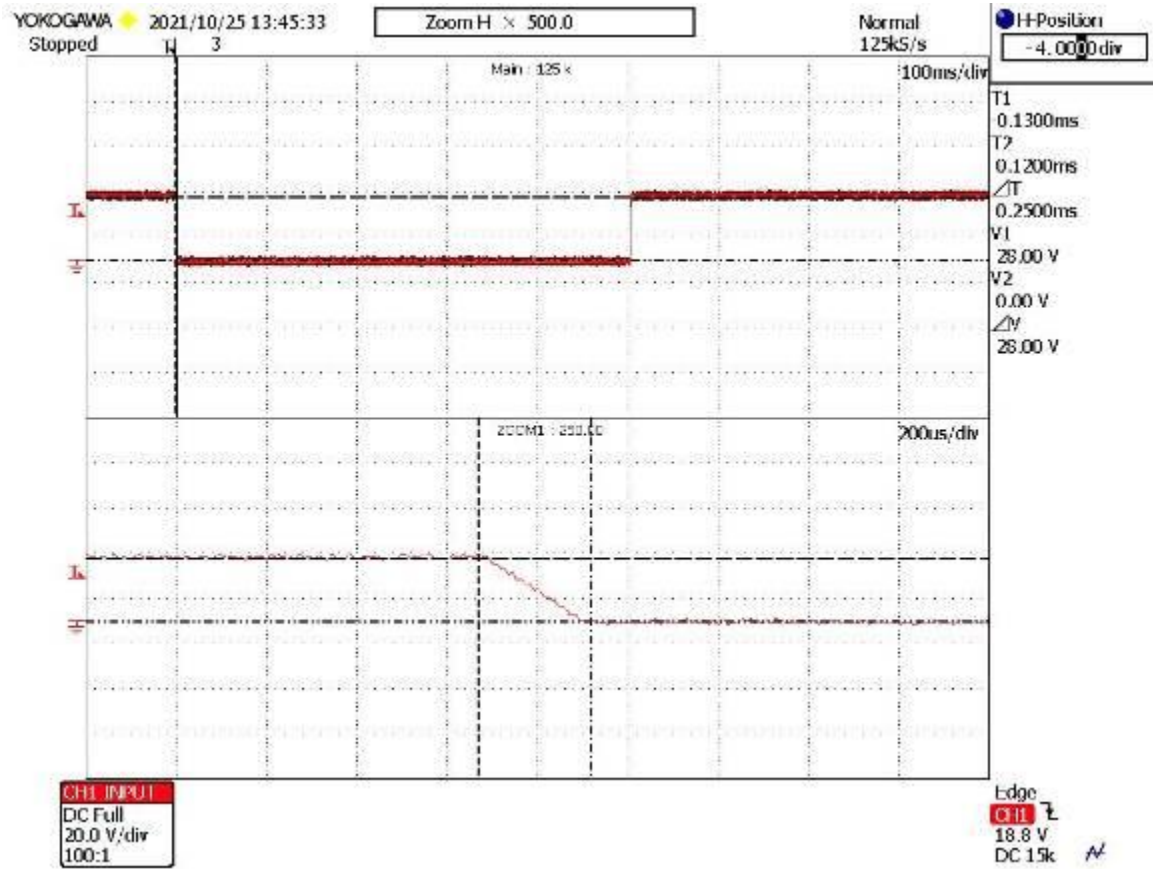
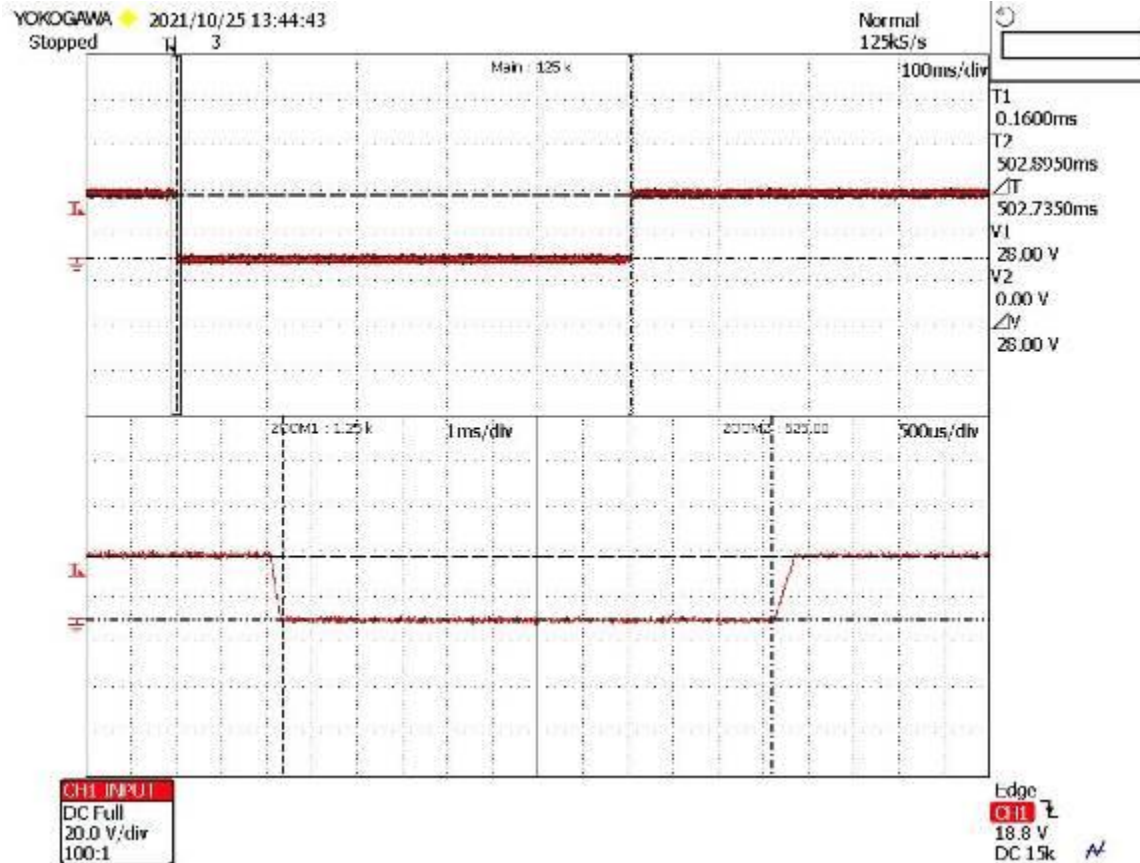


Figure I-8: Condition B, waveform verification, transient fall time

Channel 1 = input voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

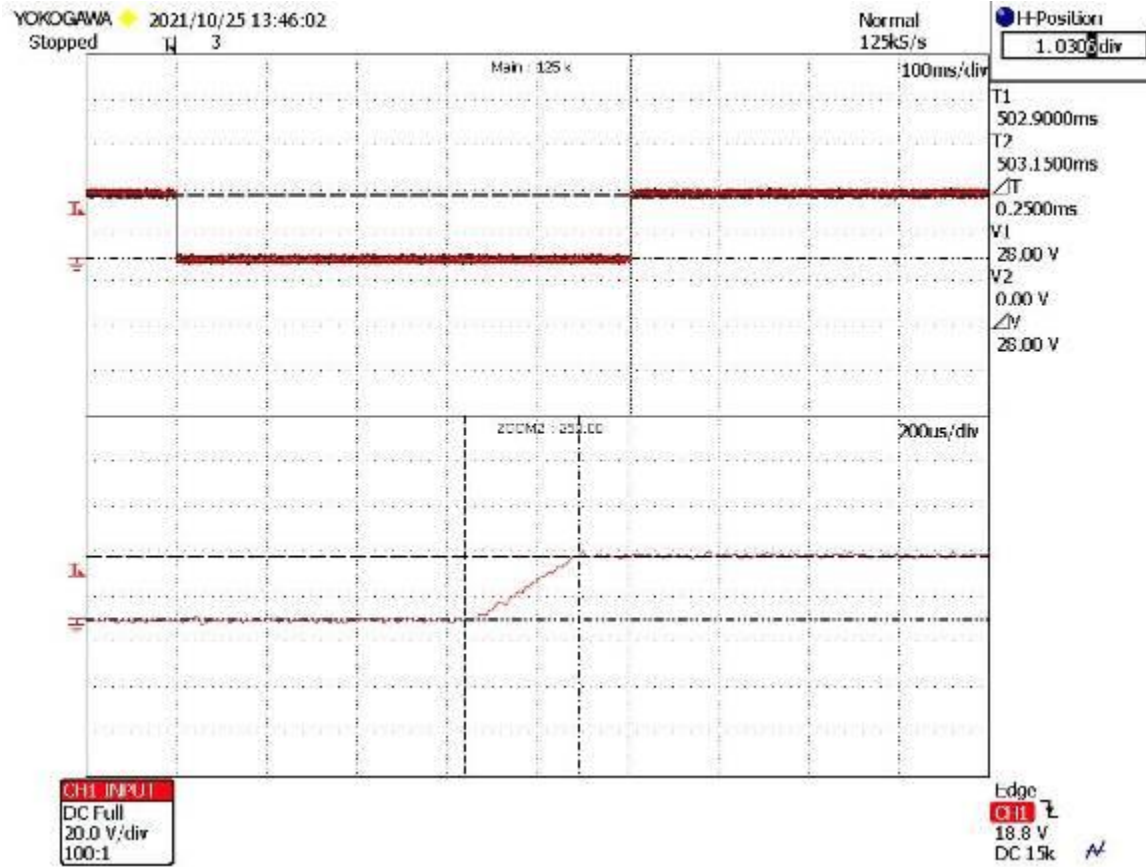


Figure I-10: Condition B, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

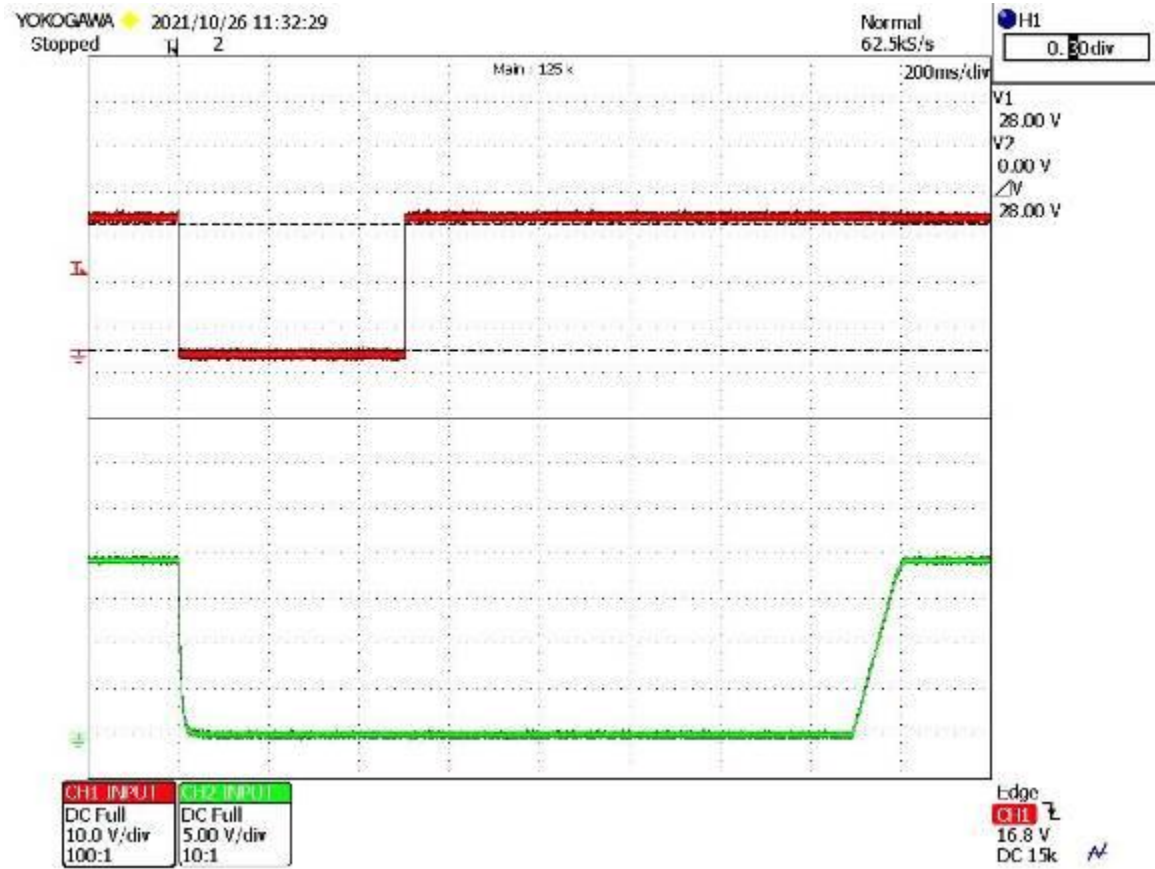


Figure I-11: Condition B, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

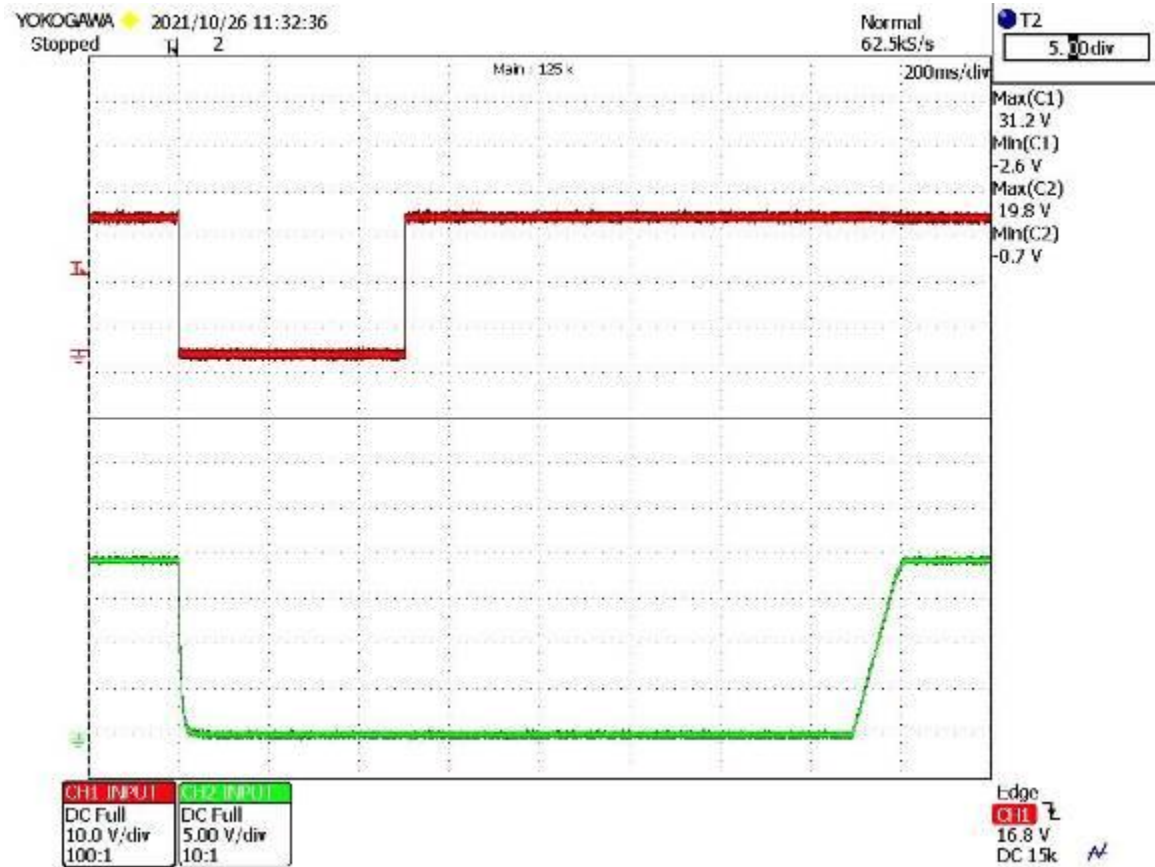


Figure I-12: Condition B, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

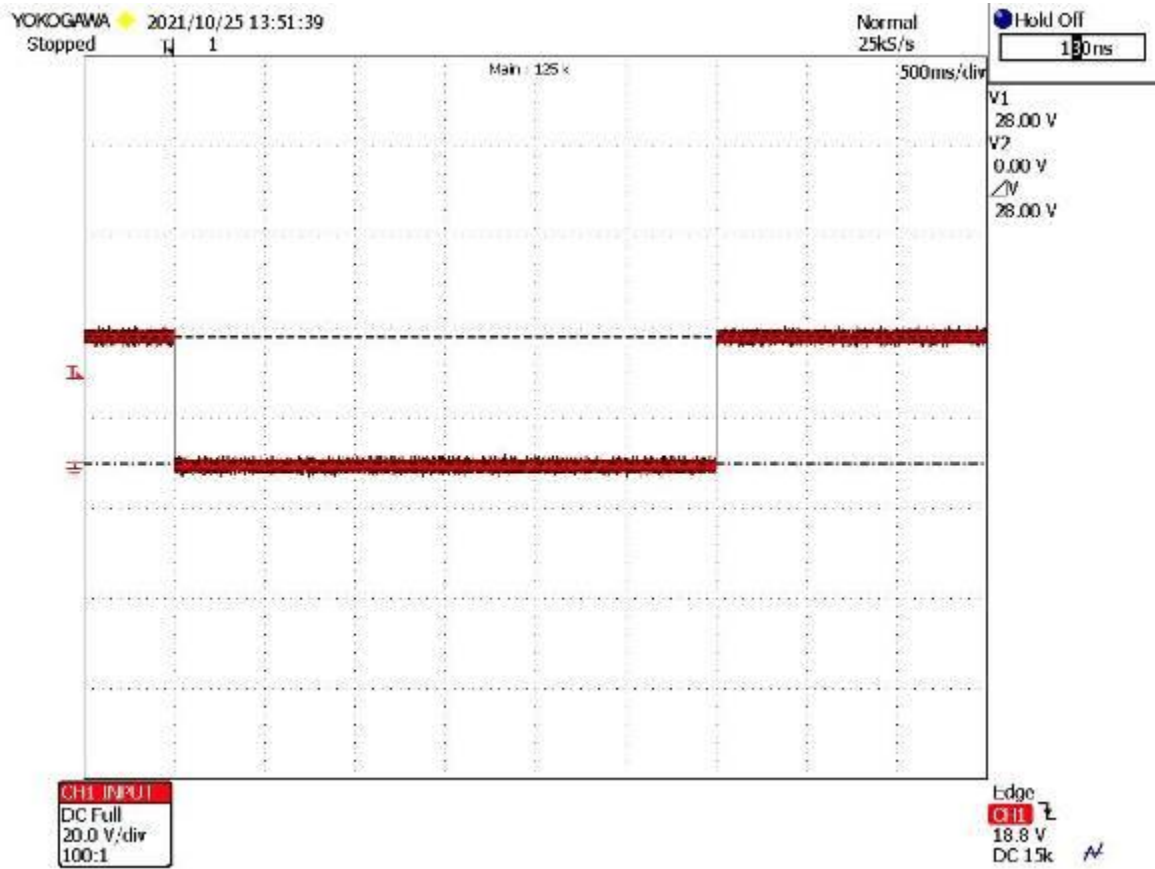
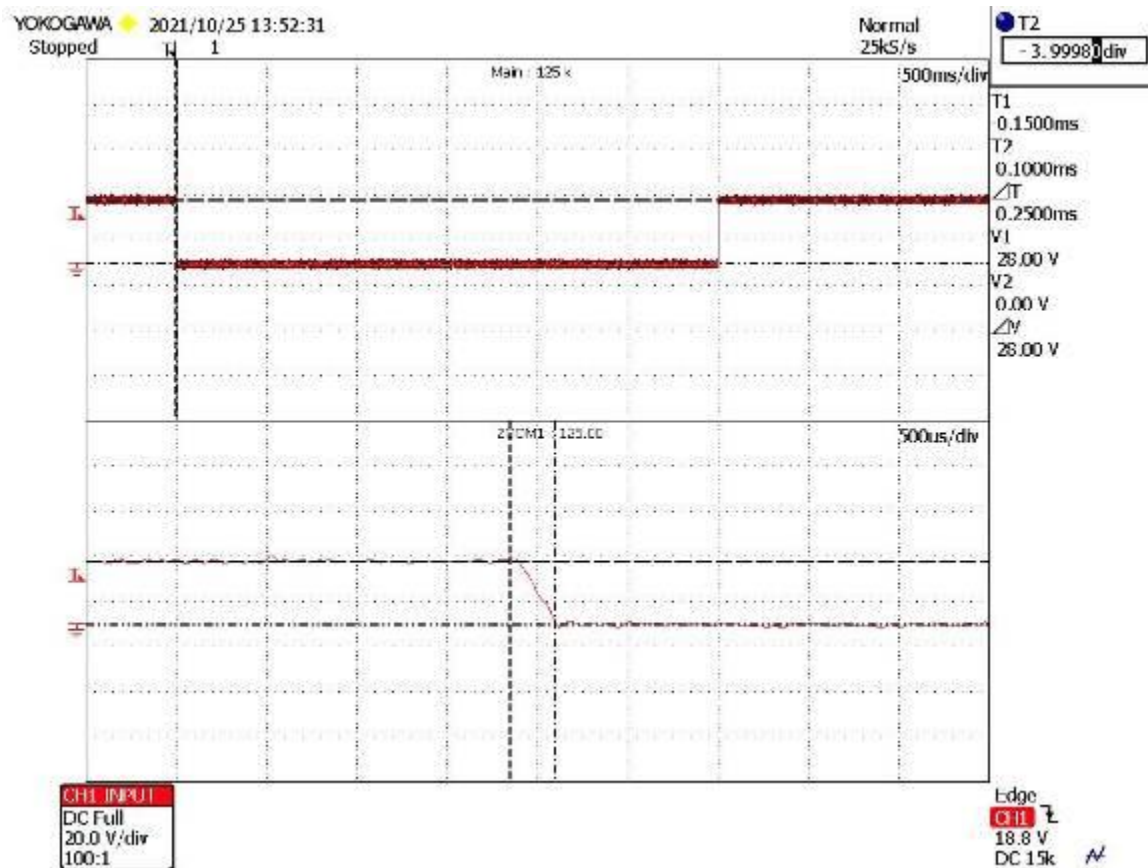


Figure I-13: Condition C, waveform verification, steady state voltage

Channel 1 = input voltage

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2



Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

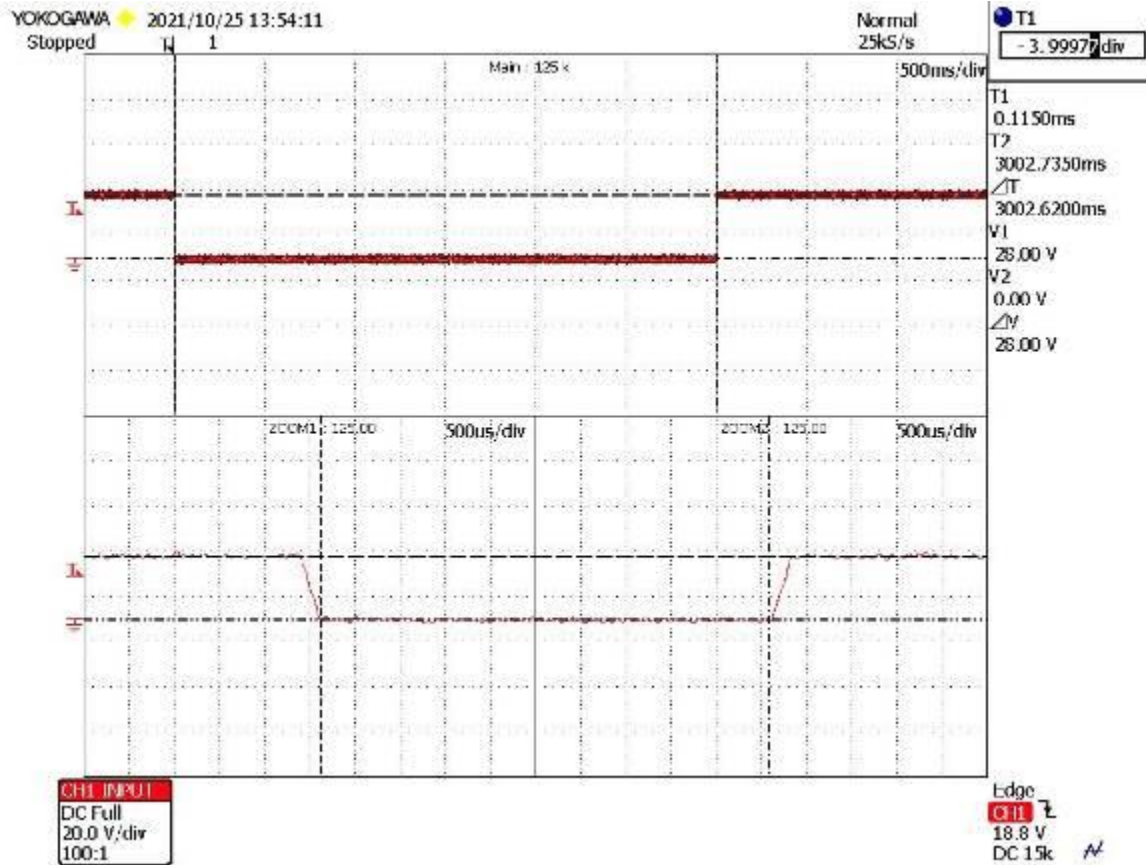


Figure I-15: Condition C, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

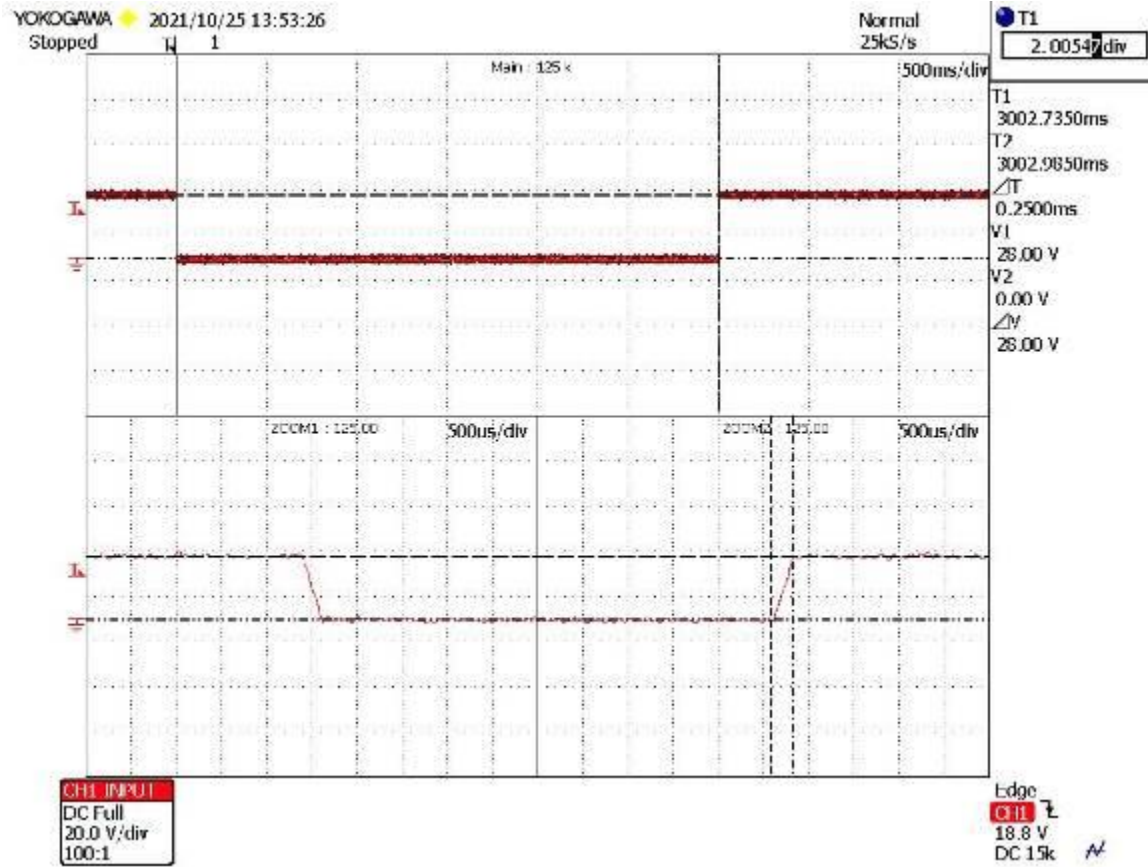


Figure I-16: Condition C, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

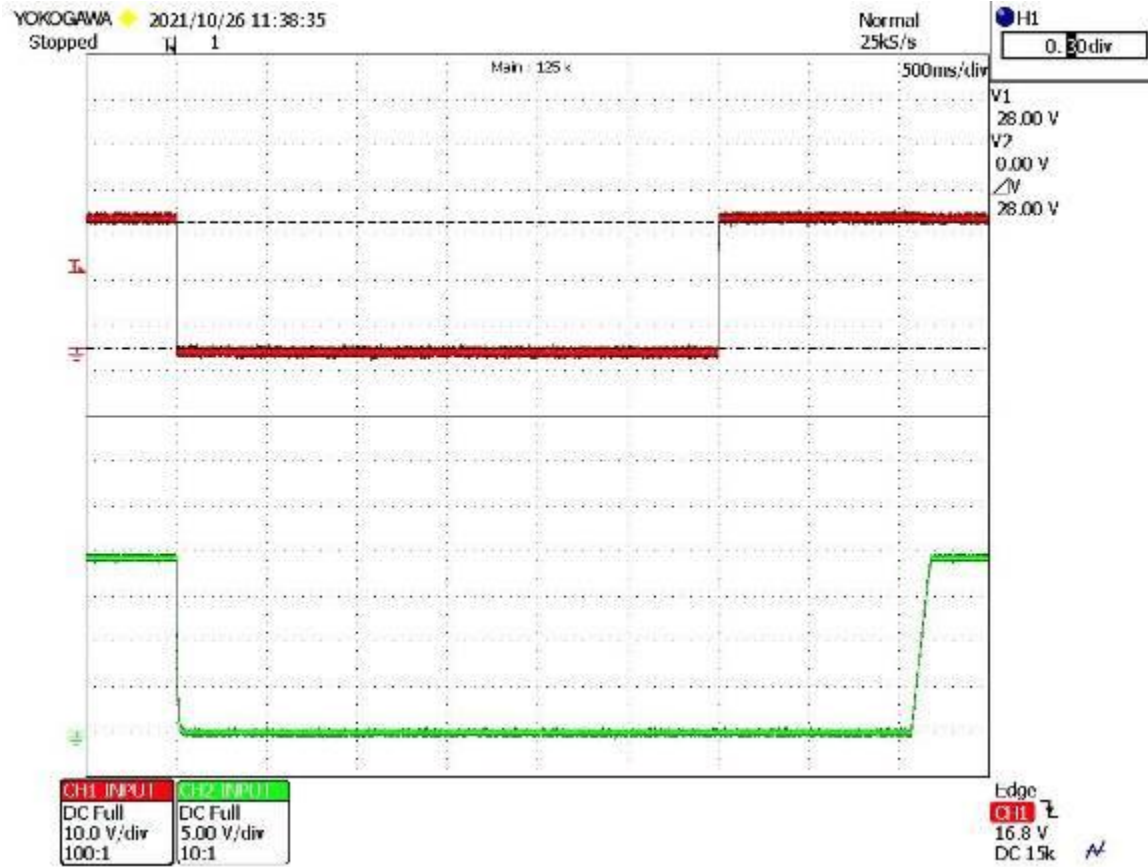


Figure I-17: Condition C, test application with cursor amplitude measurement

Channel 1 = input voltage, Channel 2 = output voltage



Data sheet **LDC601 Power Failure**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

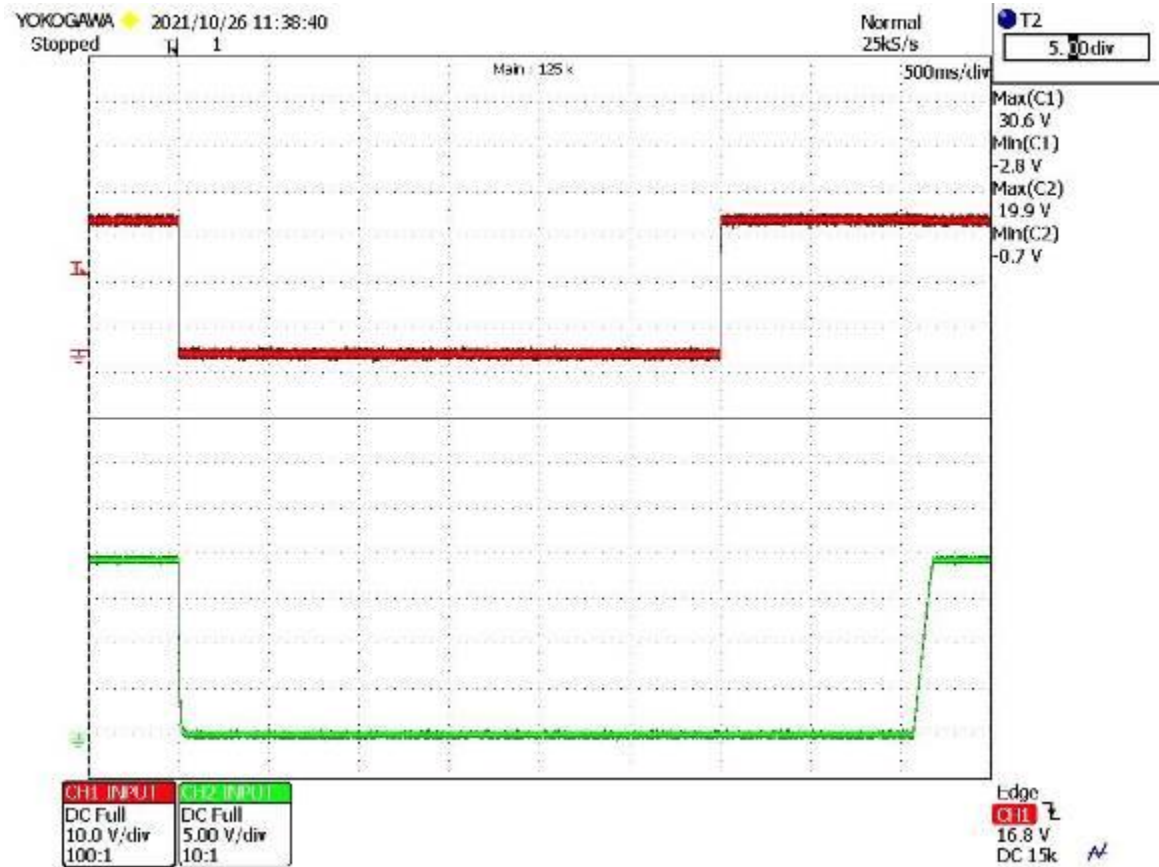


Figure I-18: Condition C, test application with minimum and maximum measurement
 Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

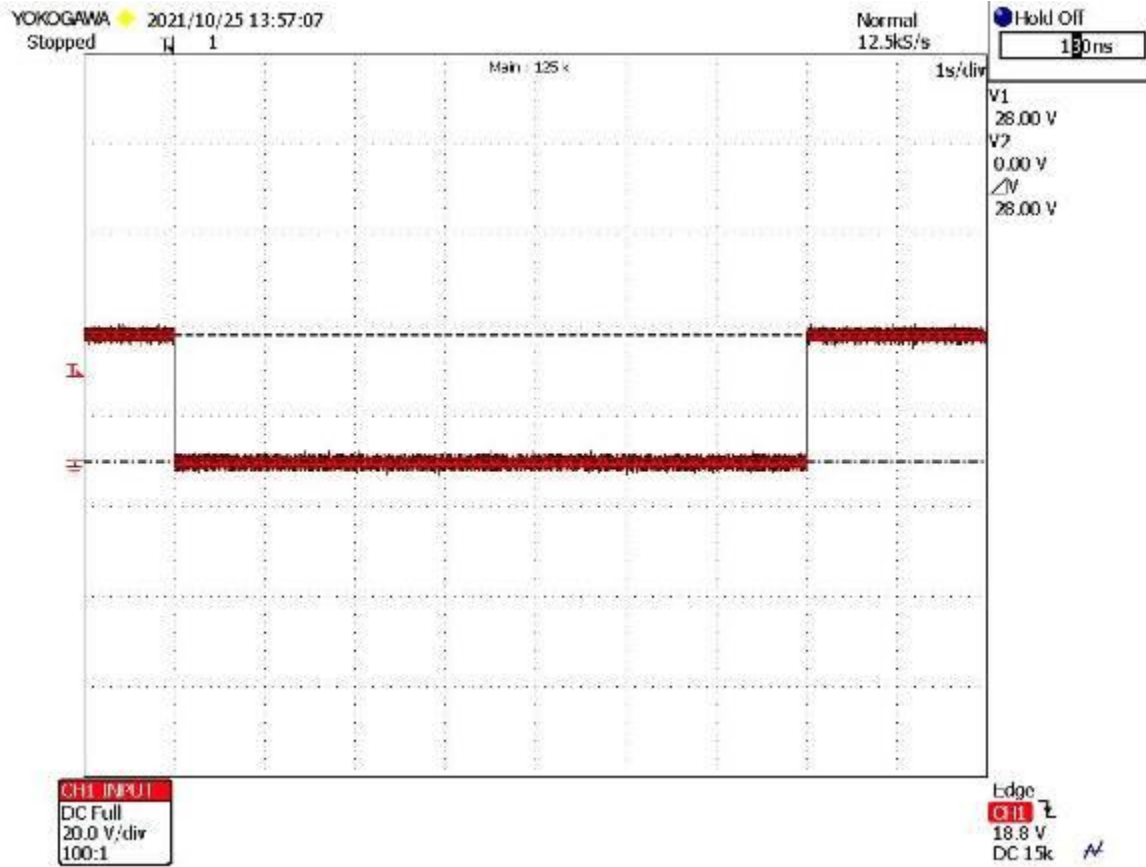


Figure I-19: Condition D, waveform verification, steady state voltage

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

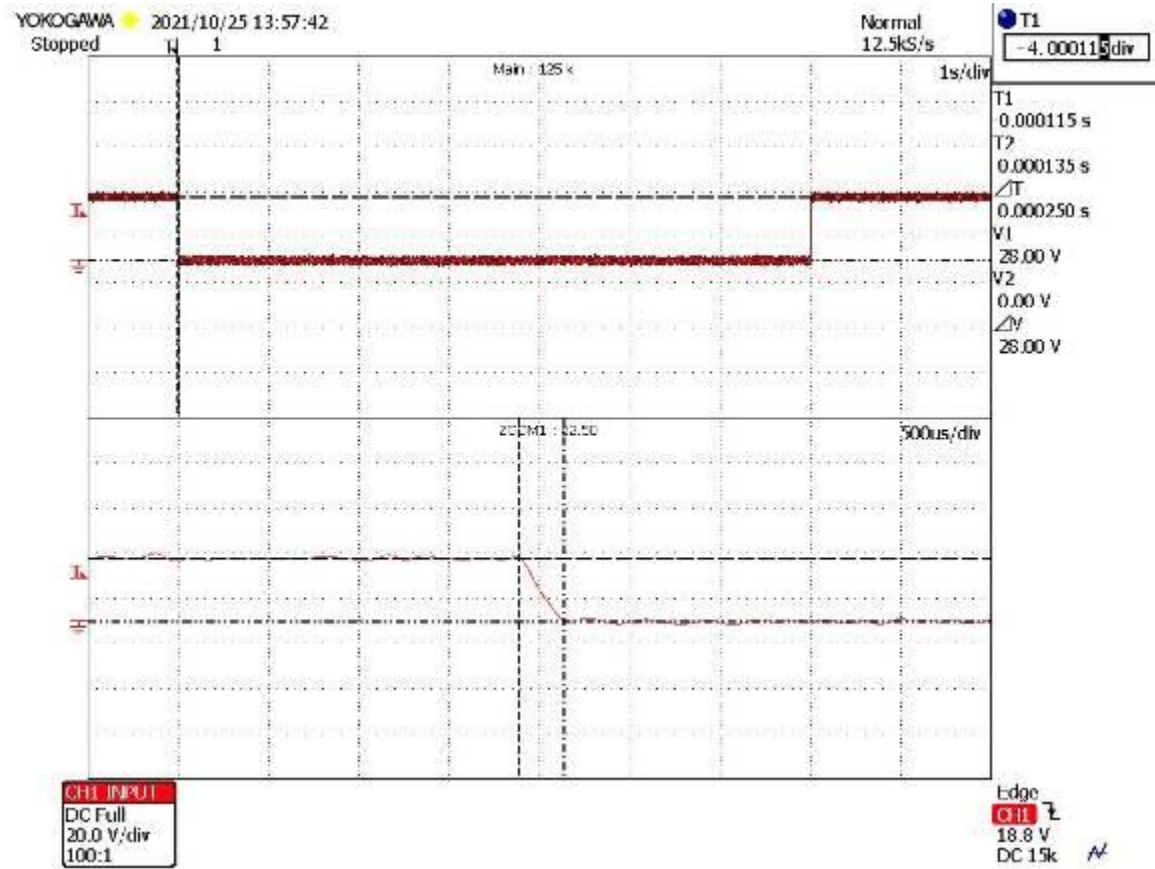


Figure I-20: Condition D, waveform verification, transient fall time

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

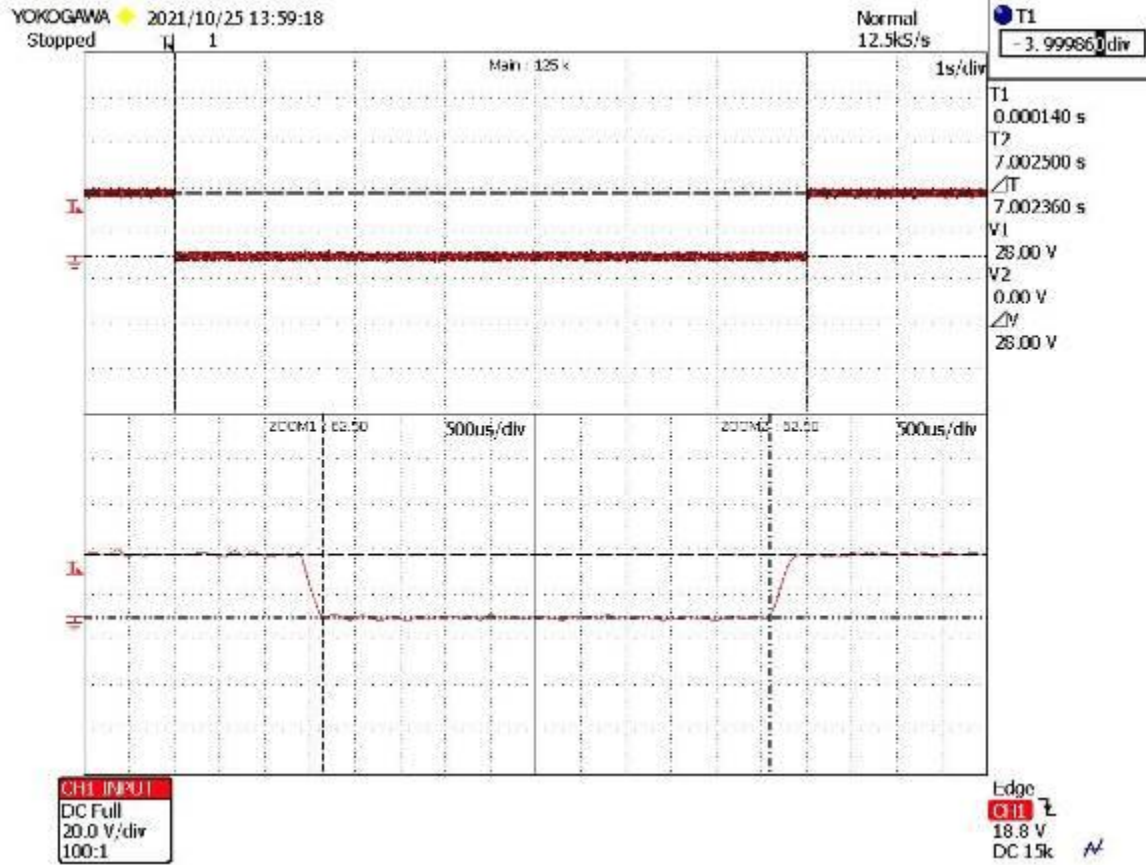


Figure I-21: Condition D, waveform verification, transient duration

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

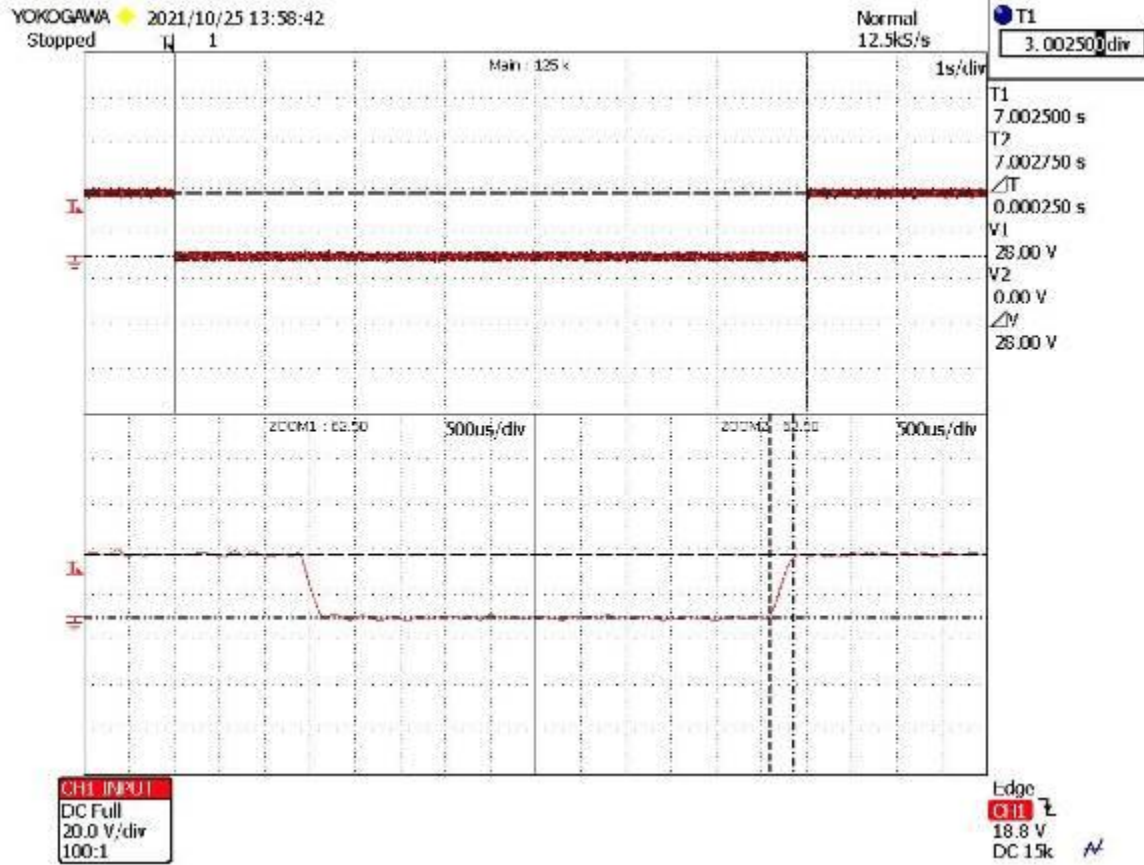


Figure I-22: Condition D, waveform verification, transient rise time

Channel 1 = input voltage



Data sheet

LDC601 Power Failure

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

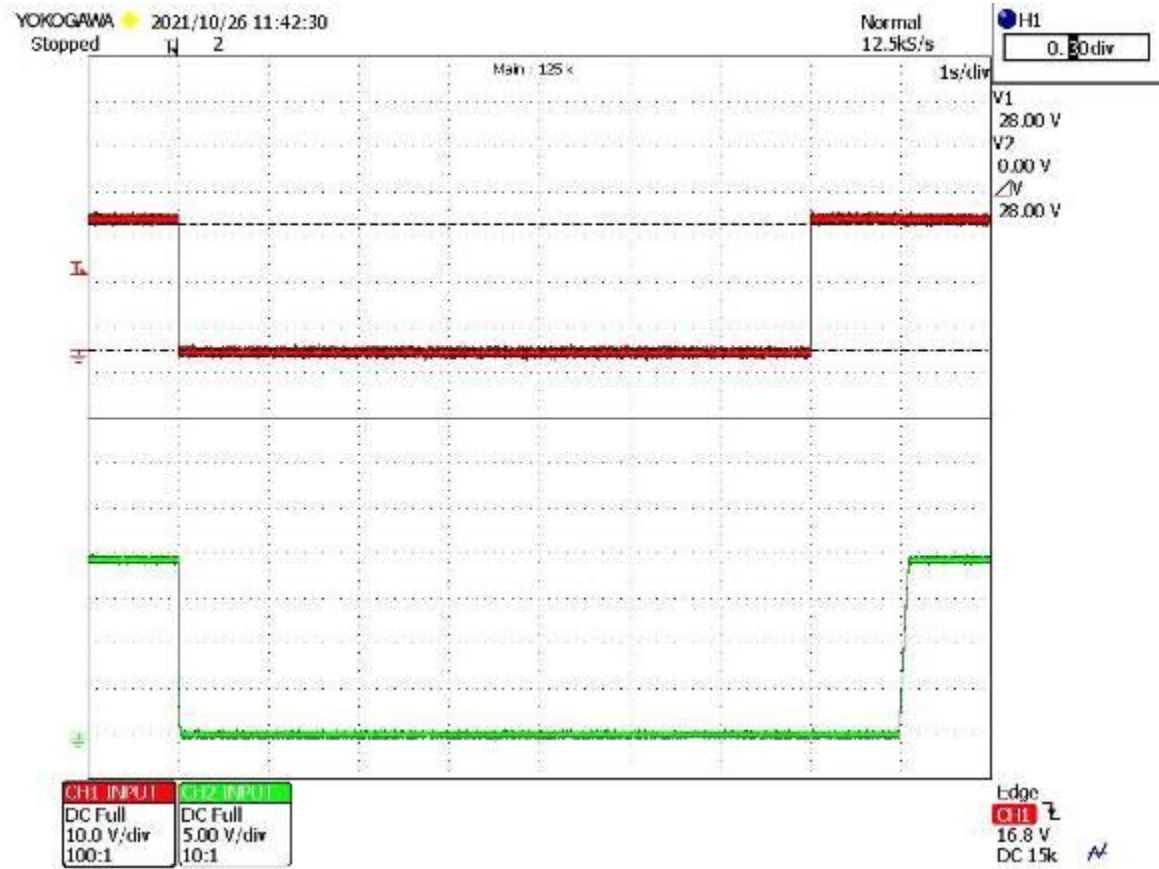


Figure I-23: Condition D, test application with cursor amplitude measurement

Channel 1 = input voltage, channel 2 = output voltage



Data sheet **LDC601 Power Failure**

Company name	Lind Electronic Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC601		
DUT description	DC/DC Converter	Test date(s)	10/25/2021 to 10/26/2021	Location	Groundplane G2

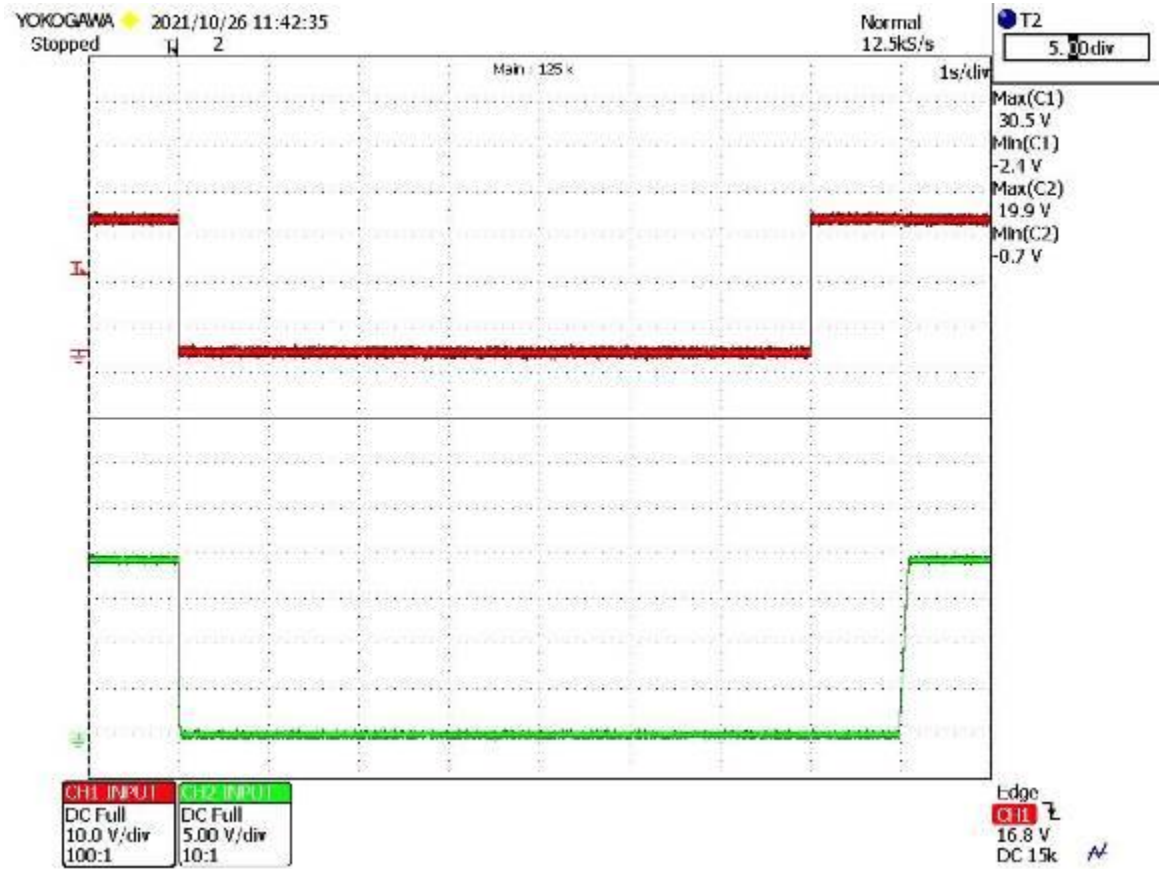


Figure I-24: Condition D, test application with minimum and maximum measurement

Channel 1 = input voltage, channel 2 = output voltage

Appendix L: LDC602 Phase Reversal



Data sheet

LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2

Equipment under test information		
Description	Part number	Serial number
DC/DC Converter	MIL 1950-5435	2135

Equipment list					
X = within calibration dates, N/A = calibration not necessary					
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?
300-037	Oscilloscope	X	380-549	DC power supply	N/A
230-123	Differential probe	X	230-130	Differential probe	X
210-530	Multimeter	X	400-060	Stopwatch	X

Power Input DC, LDC602 Power Failure, Phase Reversal Test results				
EUT mode	Voltage	Duration (min)	Result	Notes
Powered	28Vdc	30	Pass	Figure J-1, reversed polarity
Powered	28 Vdc	30	Pass	Figure J-2, normal polarity



Data sheet

LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2



Photograph J-1: EUT identification



Data sheet
LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2



Photograph J-2: Test setup, reversed polarity



Data sheet
LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2



Photograph J-3: Test setup, normal polarity



Data sheet

LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2



Photograph J-4: Test setup



Data sheet

LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2

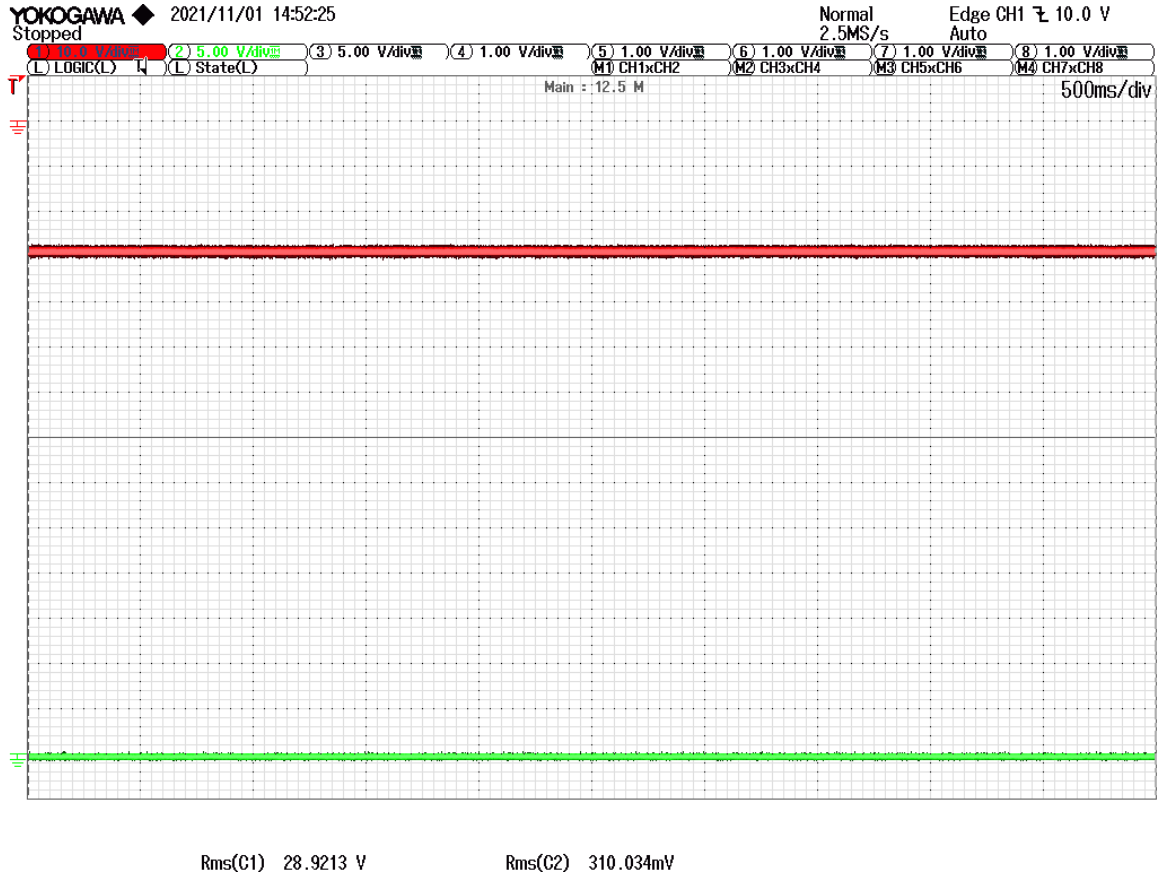


Figure J-1: LDC602, phase reversed

Channel 1 = input voltage, channel 2 = output voltage



Data sheet

LDC602 Power Failure, Phase Reversal

Company name	Lind Electroninc Design Co, Inc.	Performed by	JTH	Reviewed by	HZ
Project number	62293	Specification	MIL-STD 704F, LDC602		
DUT description	DC/DC Converter	Test date(s)	11/1/2021 to 11/1/2021	Location	Groundplane G2

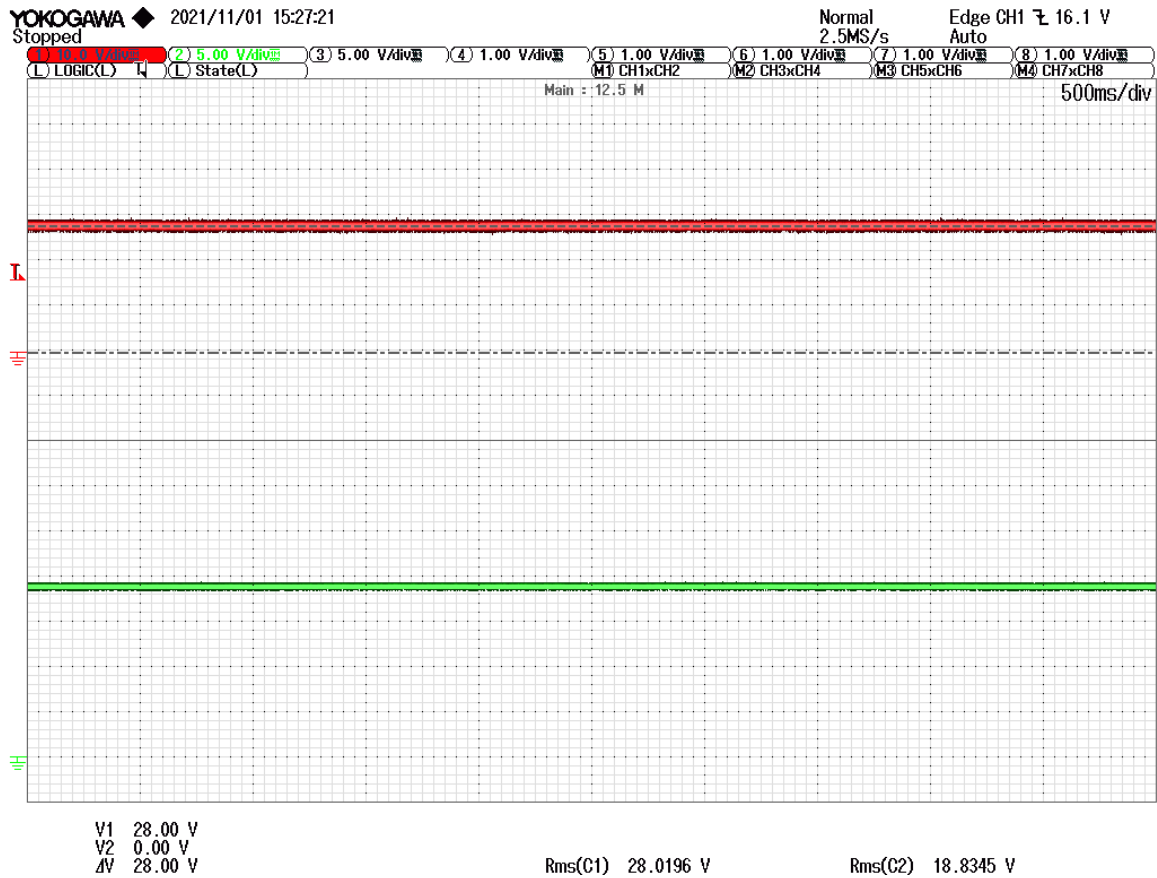


Figure J-2: LDC602, phase normal

Channel 1 = input voltage, channel 2 = output voltage