TEST RESULT SUMMARY

INTERNATIONAL STANDARD ISO 7637-2: 2004 + A1: 2008

COMPANY NAME COMPANY ADDRESS	Linear Technology Corporation 1630 McCarthy Boulevard Milpitas CA 95035
EQUIPMENT DESCRIPTION	Demoboard Box
MODEL NUMBER(S) TESTED	DC2062A
SERIAL NUMBER(S) TESTED	N/A
TEST REPORT NUMBER	NC1302595
TEST DATE	28-29 March and 02 April 2013

TÜV SÜD America Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the immunity requirements of International Standard ISO 7637-2: 2011 "Road Vehicles - Electrical Disturbances from Conduction and Coupling - Part 2: Electrical Transient Conduction Along Supply Lines Only. Testing was performed with a 3A contact-current load and with an 8-ohm resistive load, with the results shown below. See the Transient Immunity data sheets included in this document for test details.

				Classification of Functional Status			
Test Pulse	**Level IV Requirements**	**Level Passed**	**# of Pulses / Duration**	**No Deviation**	**Deviation within Specification**	**Does Not Comply**	**Not Performed**
1	-100V	-100V	5000 pulses	☐ Class A	■ Class B	☐	☐
2a	+50V	+50V	5000 pulses	■ Class A	☐ Class _	☐	☐
2b	+10V	+10V	10 pulses	☐ Class A	■ Class B	☐	☐
3a	-150V	-150V	1 hour	■ Class A	☐ Class _	☐	☐
3b	+100V	+100V	1 hour	■ Class A	☐ Class _	☐	☐
4	-7V	-7V	3 pulse	☐ Class A	■ Class B	☐	☐
5	+87V	+89V	3 pulse	■ Class A	☐ Class _	☐	☐

Class A: All functions performed as designed during and after exposure to disturbance.
Class B: All functions performed as designed during exposure with one or more allowed to go beyond the specified tolerance. All functions returned automatically to within normal limits after exposure was removed. Memory functions remained Class A.
Class C: One or more functions did not perform as designed during exposure but returned automatically to within normal limits after exposure was removed.
Class D: One or more functions did not perform as designed during exposure and did not return to normal operation until after exposure was removed and the EUT was manually reset.
Class E: One or more functions did not perform as designed during and after exposure and did not return to proper operation without repairing or replacing the EUT.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

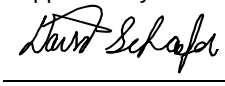
Date: 15 April 2013

Location: New Brighton MN USA

Tested by:

Doug L Dahl
Senior EMC Technician

Approved by:



David T Schaefer
Senior EMC Engineer

Not Transferable

REVISION RECORD

REVISION	TOTAL NUMBER OF PAGES	DATE	DESCRIPTION
	89	15 April 2013	Initial Release

STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are accurate. The reader is cautioned that there is some measurement variability due to the tolerances of the test equipment that can contribute to a nominal product measurement uncertainty. Furthermore, component differences and manufacturing process variability of production units similar to that tested may result in additional product uncertainty. If necessary, refer to the test lab for the actual measurement uncertainty for specific tests.

TEST EQUIPMENT

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated to meet test method standard requirements and/or manufacturer's specifications.

Test equipment used:

	Model Number	Manufacturer	Description	Serial Number	Cal Due
■ -	SW5250A-3-3-2	Elgar	Switching Amplifier	888	Code B
■ -	EFT 200	EM Test	Switching Transient Simulator	0597-07	Code Y
■ -	LD 200 B	EM Test	Load Dump Trans Simulator	0797-02	Code Y
■ -	MPG 200	EM Test	Ind Load Disconnect Trans	0497-06	Code Y
■ -	111	Fluke	True RMS Multimeter	82710580	16 May 13
■ -	179	Fluke	Multimeter	19990621	01 Nov 13
■ -	54615B	Hewlett-Packard	500 MHz 2-CH Oscilloscope	US35420841	15 May 13
■ -	P5100	Tektronix	HV Probe	1-181496	20 Aug 13

Cal Code B = Calibration verification performed internally. Cal Code Y = Calibration not required when used with other calibrated equipment.

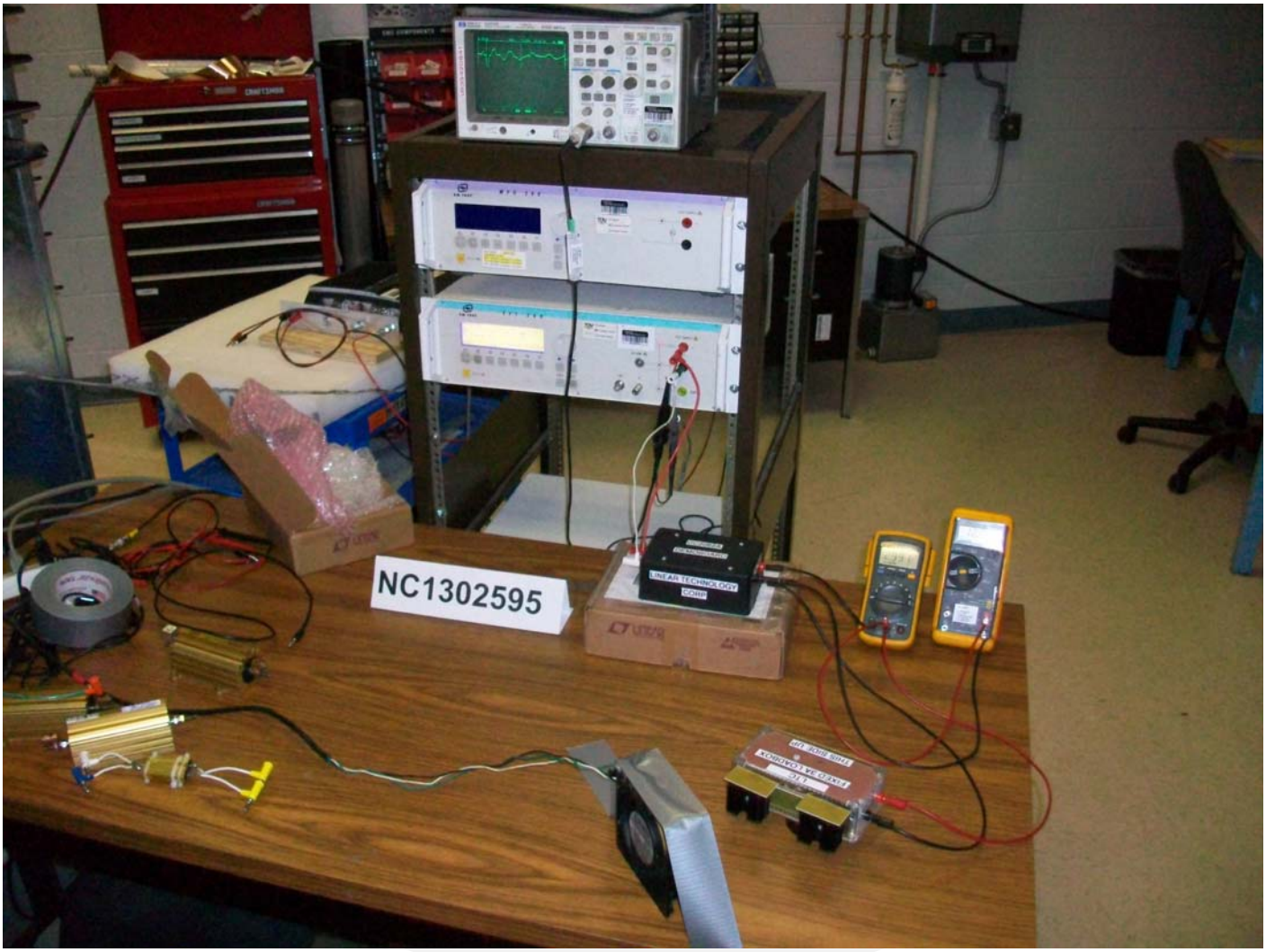
Test Setup Photo
ISO 7627-2 Test Pulses 1 and 2a
3A Constant-Current Load

TÜV SÜD AMERICA INC 1775 Old Hwy 8 NW, Suite 104 New Brighton MN 55112-1891 USA Tel: 651 631 2487 Fax: 651 638 0285 Rev. 122607

Test Setup Photo
ISO 7627-2 Test Pulses 2b and 4
3A Constant-Current Load

Test Setup Photo
ISO 7627-2 Test Pulses 2b and 4
8-ohm Resistive Load

Test Setup Photo
ISO 7627-2 Test Pulses 3a and 3b
3A Constant-Current Load



Test Setup Photo
ISO 7627-2 Test Pulse 5
3A Constant-Current Load

TÜV SÜD AMERICA INC 1775 Old Hwy 8 NW, Suite 104 New Brighton MN 55112-1891 USA Tel: 651 631 2487 Fax: 651 638 0285 Rev. 122607

TRANSIENT IMMUNITY - PULSE 1

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 6

Notes: Tested with 3A constant-current load.

Test Voltage (Volts)	test Level (Volts)	Pulse Width (mSec)	Pulse Period (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	-100	2	0.5	10	5000	B	✓		EUT powers off and auto recovers.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

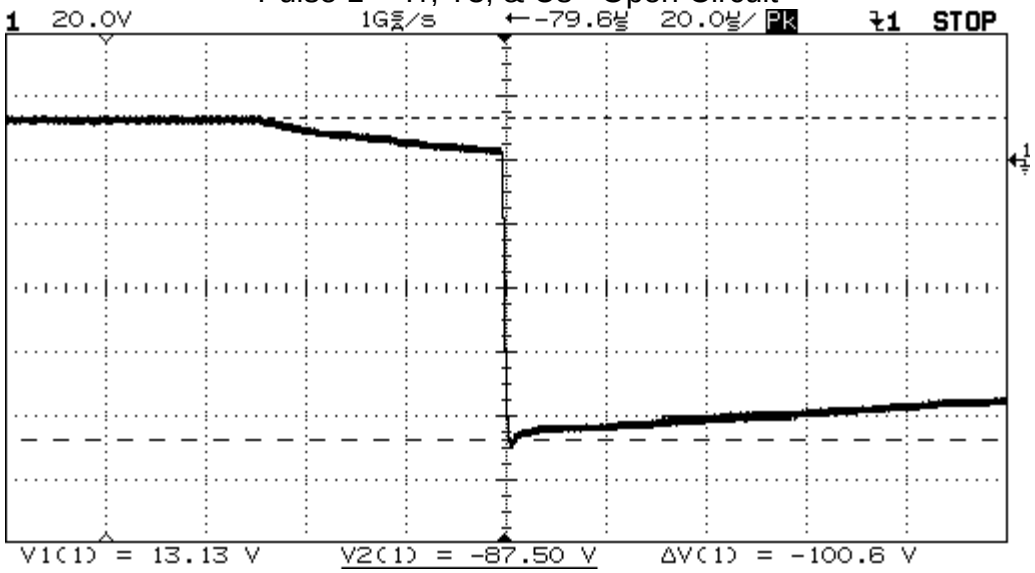
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 1 – Tr, T3, & Us - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

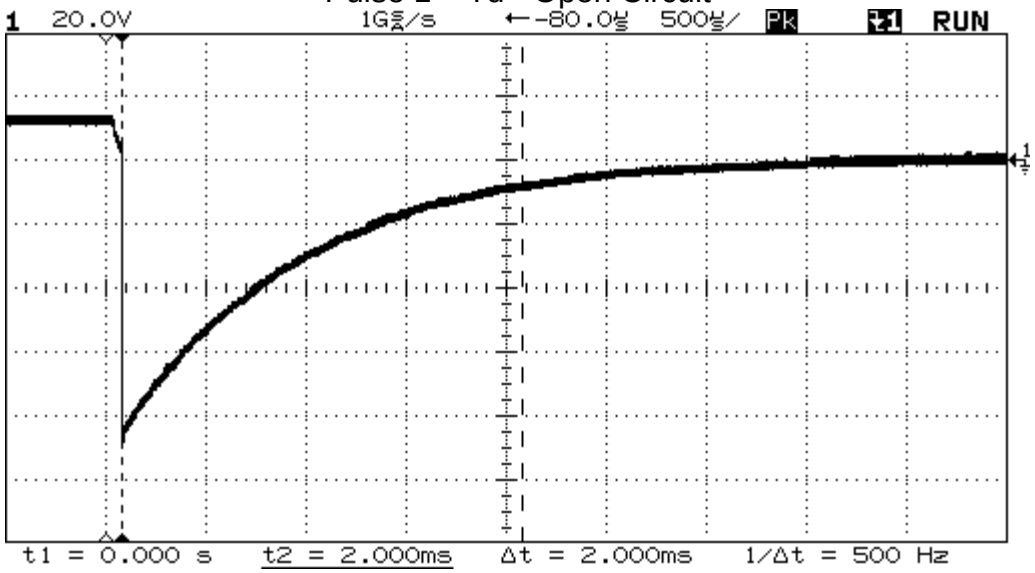
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 1 – Td - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

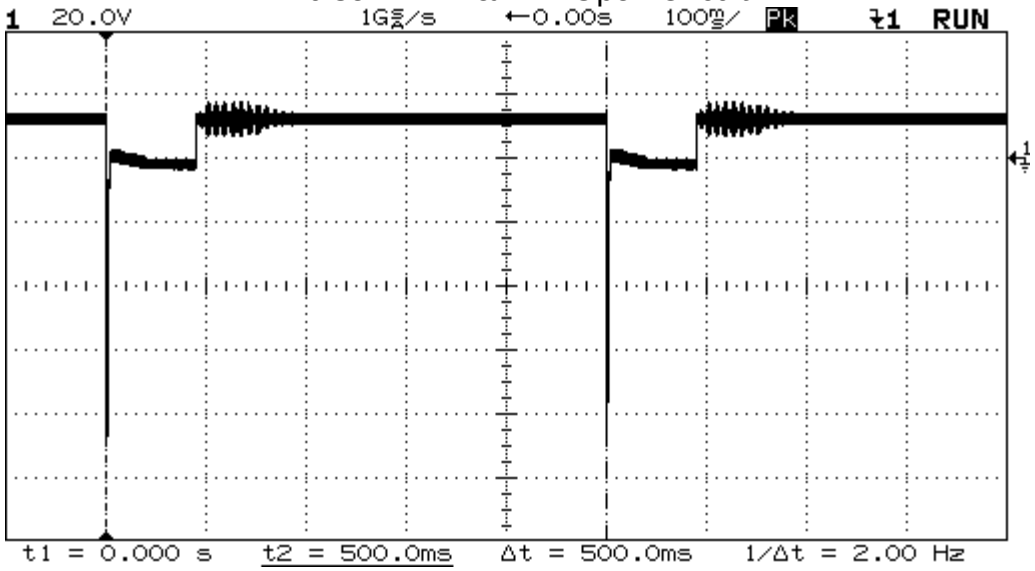
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 1 – T1 & T2 - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

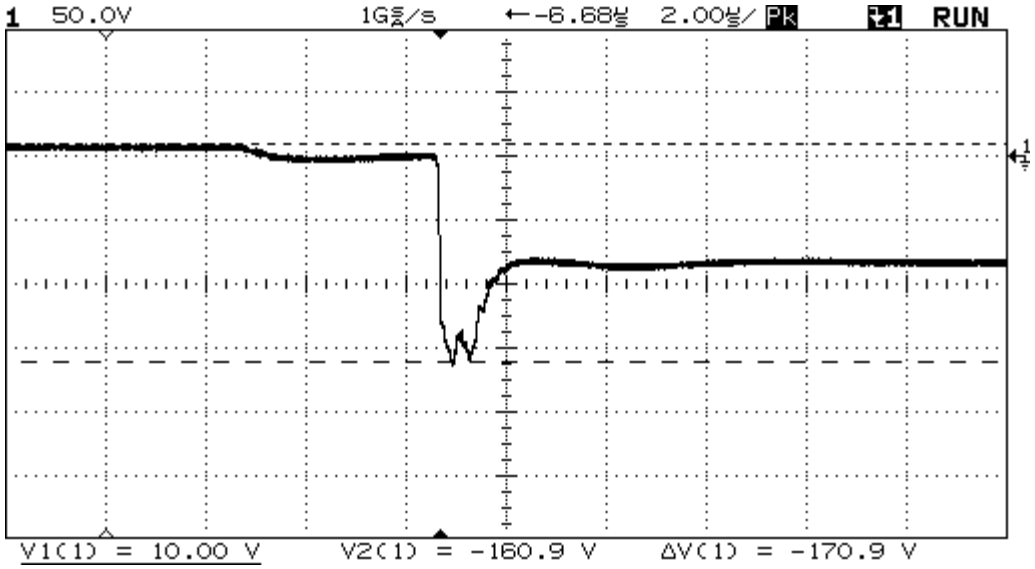
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 1 – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

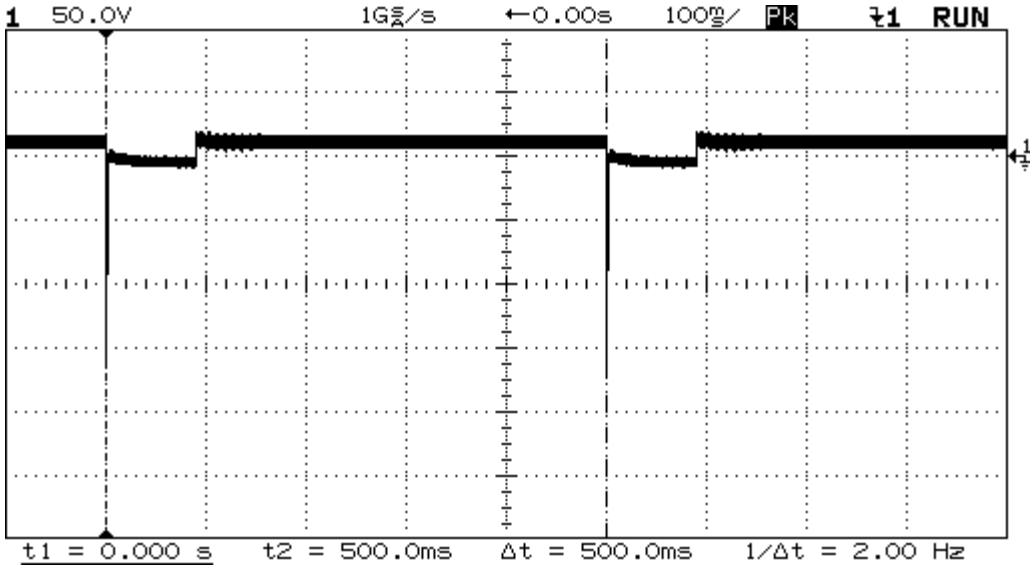
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 1 – T1 - EUT Load



Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	1 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Test Voltage (Volts)	test Level (Volts)	Pulse Width (mSec)	Pulse Period (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	-100	2	0.5	10	5000	B	✓		EUT powers off and auto recovers.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

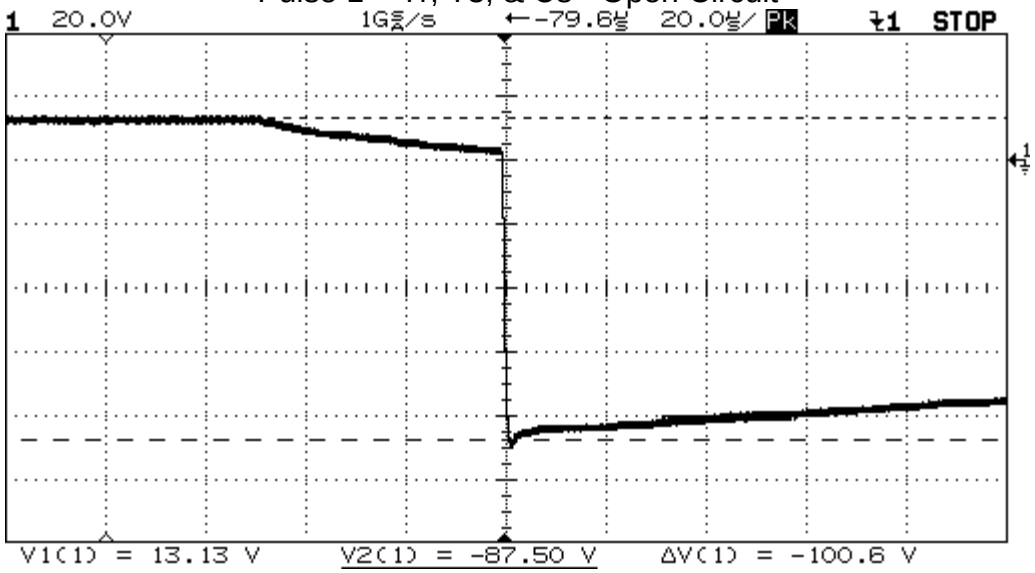
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 1 – Tr, T3, & Us - Open Circuit



Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

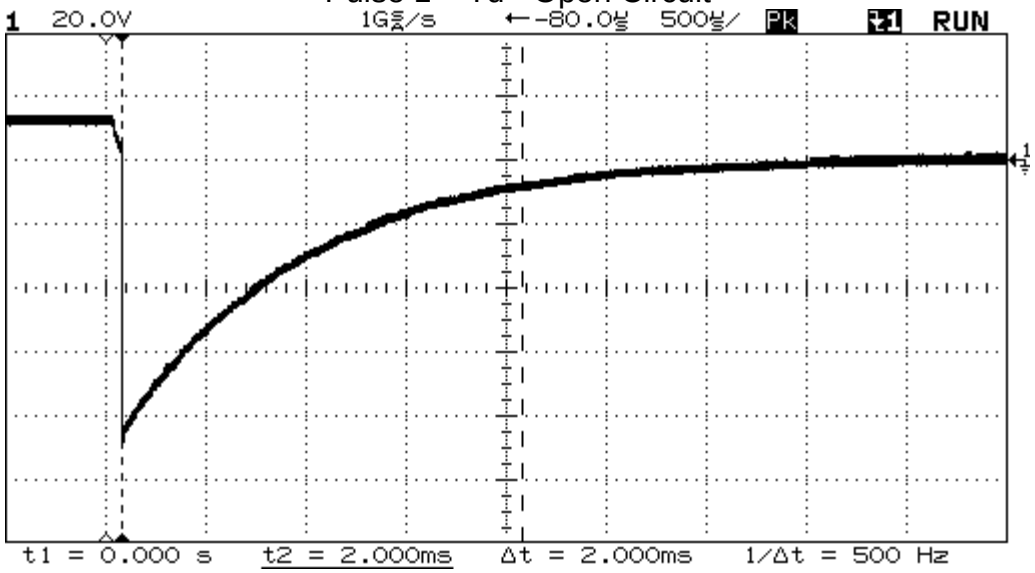
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 1 – Td - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

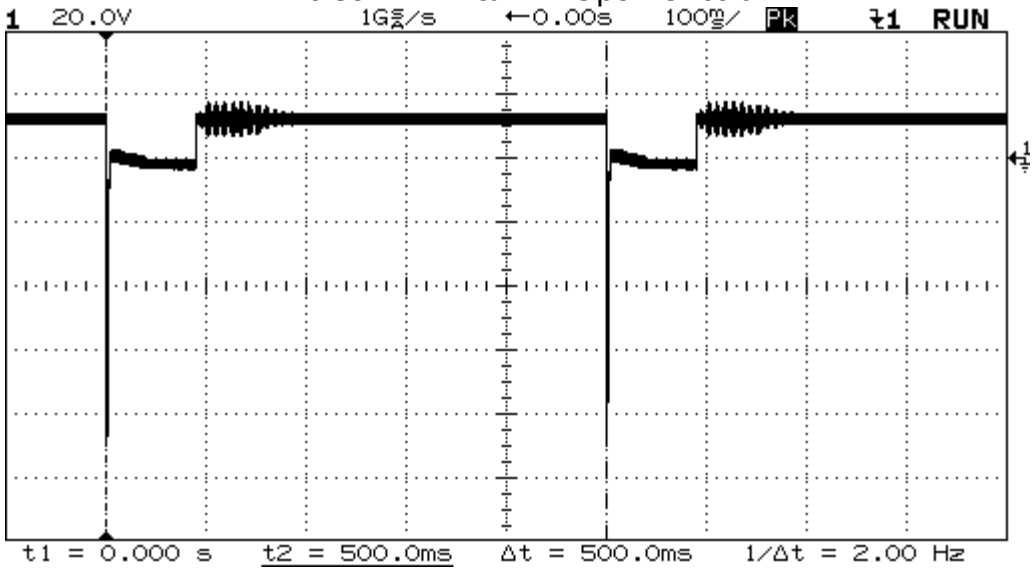
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 1 – T1 & T2 - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

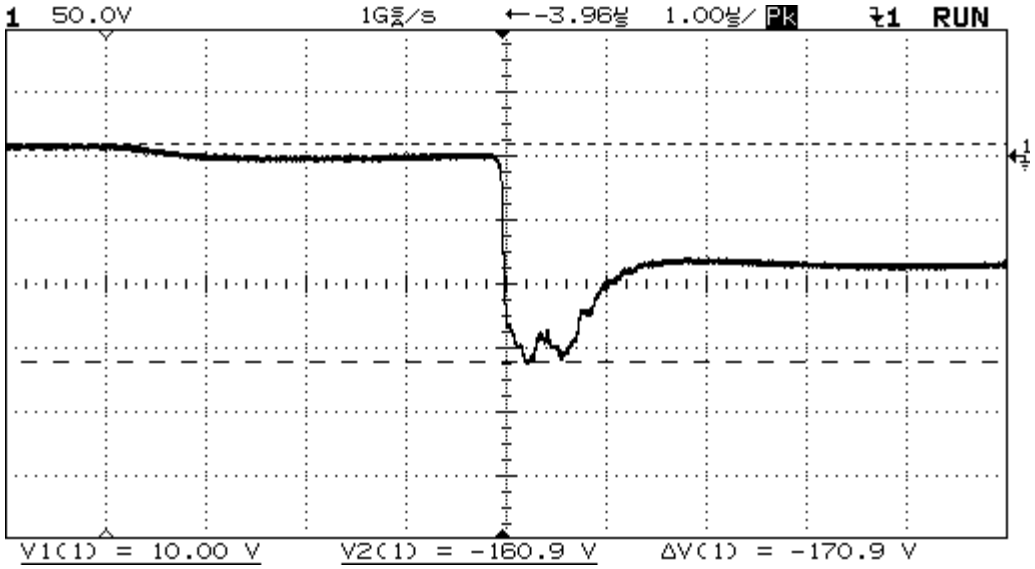
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 1 – Tr & Td - EUT Load



Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

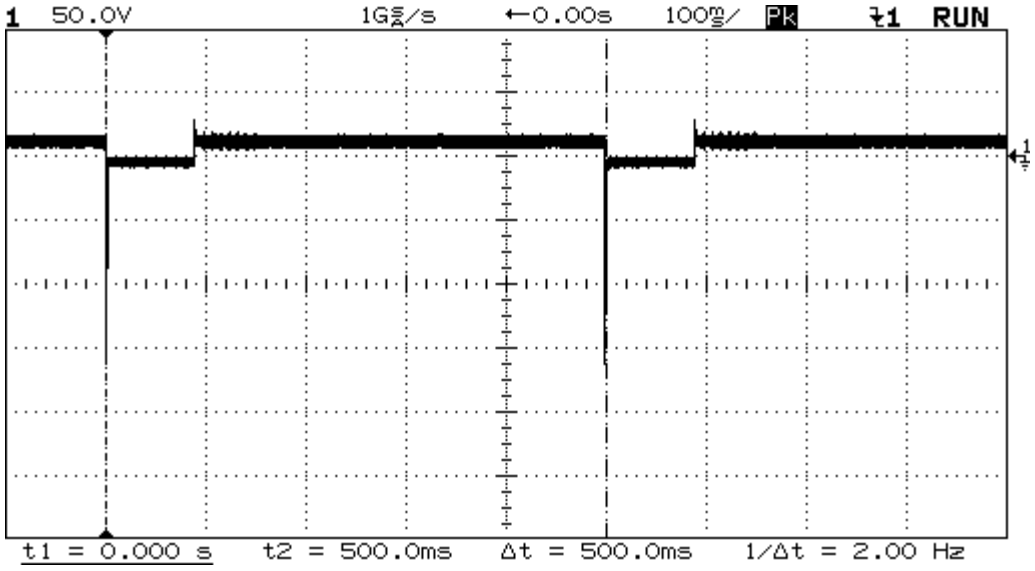
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 1

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 6
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 1 – T1 - EUT Load



Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp1-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 6

Notes: Tested with 3A constant-current load.

Test Voltage (Volts)	test Level (Volts)	Pulse Width (mSec)	Pulse Period (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	50	2	0.5	2	5000	A	✓		

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

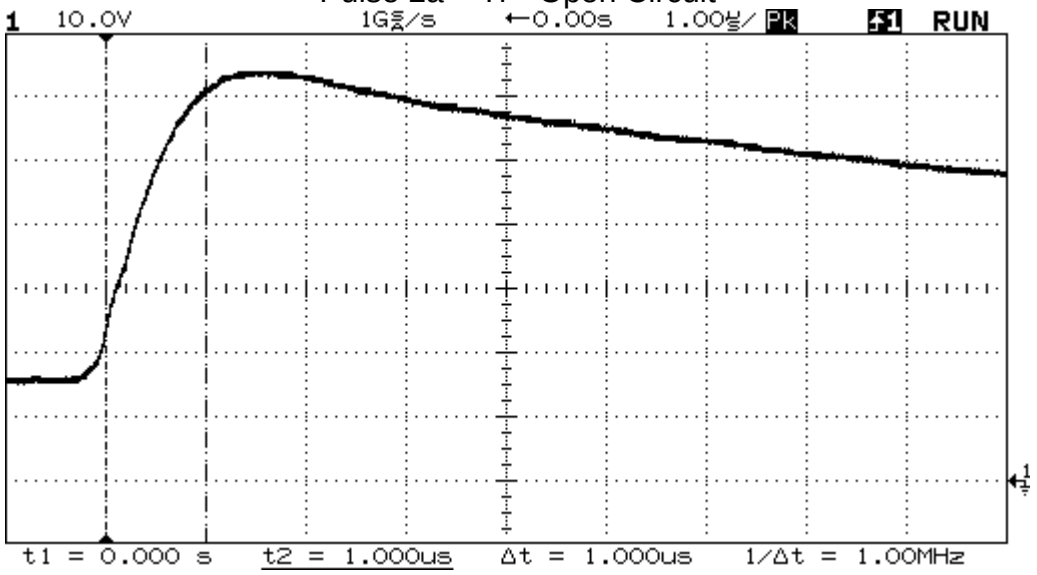
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 2a – Tr - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

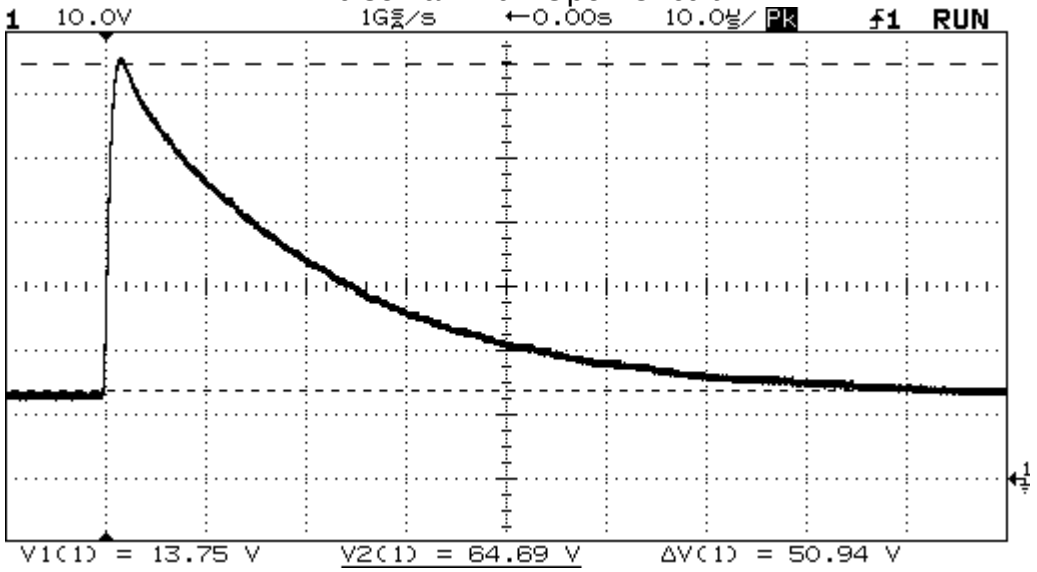
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 2a – Td - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

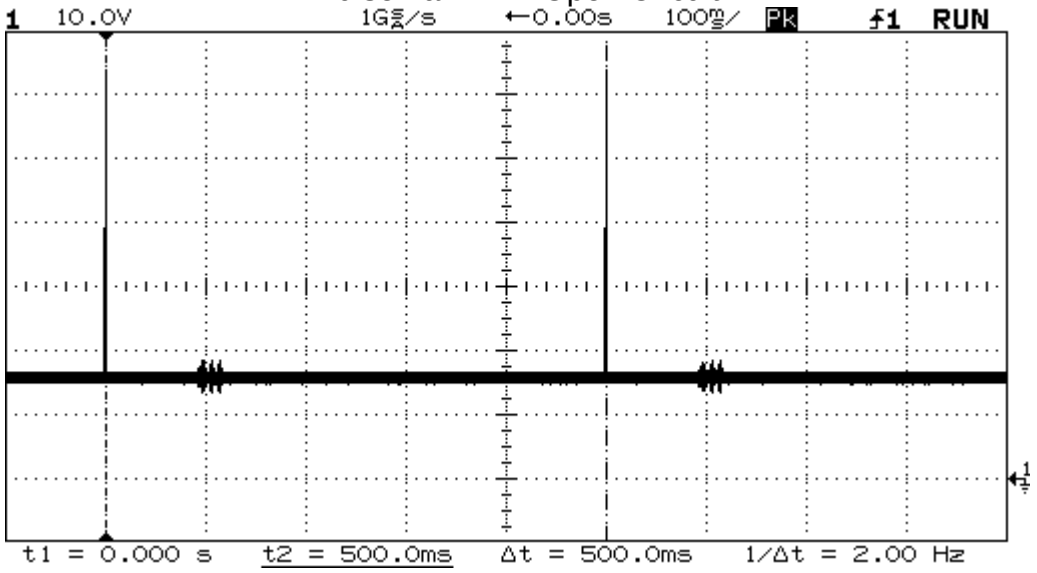
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 2a – T1 - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

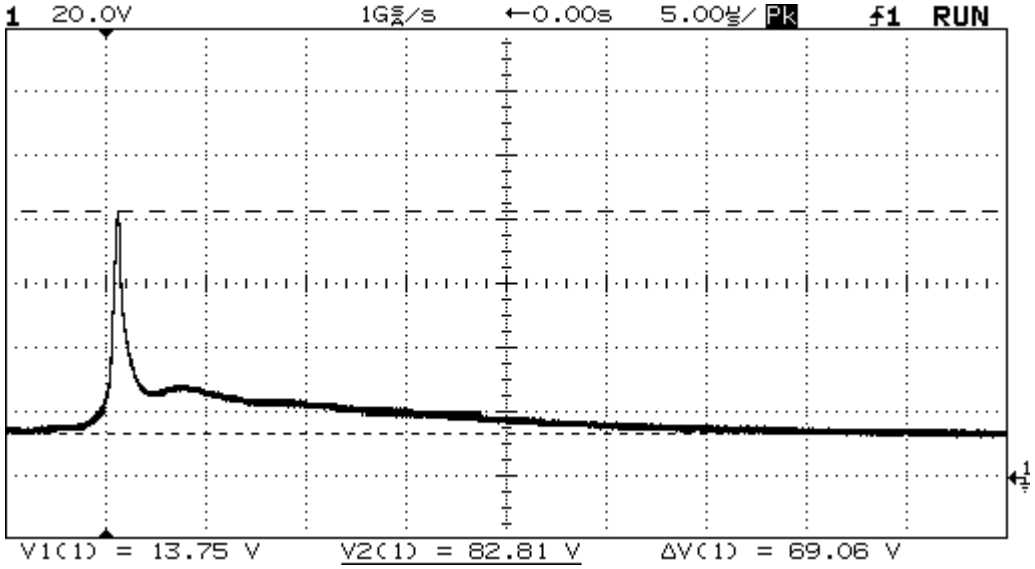
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 2a – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

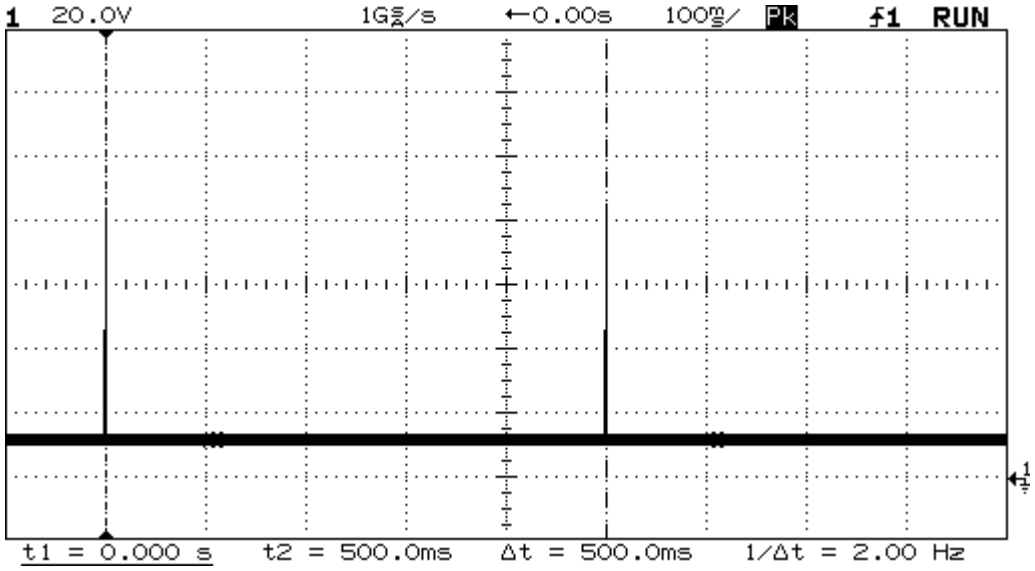
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 6
Notes:	Tested with 3A constant-current load.				

Pulse 2a – T1 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 6

Notes: Tested with 8 Ohm resistor load.

Test Voltage (Volts)	test Level (Volts)	Pulse Width (mSec)	Pulse Period (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	50	2	0.5	2	5000	A	✓		

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

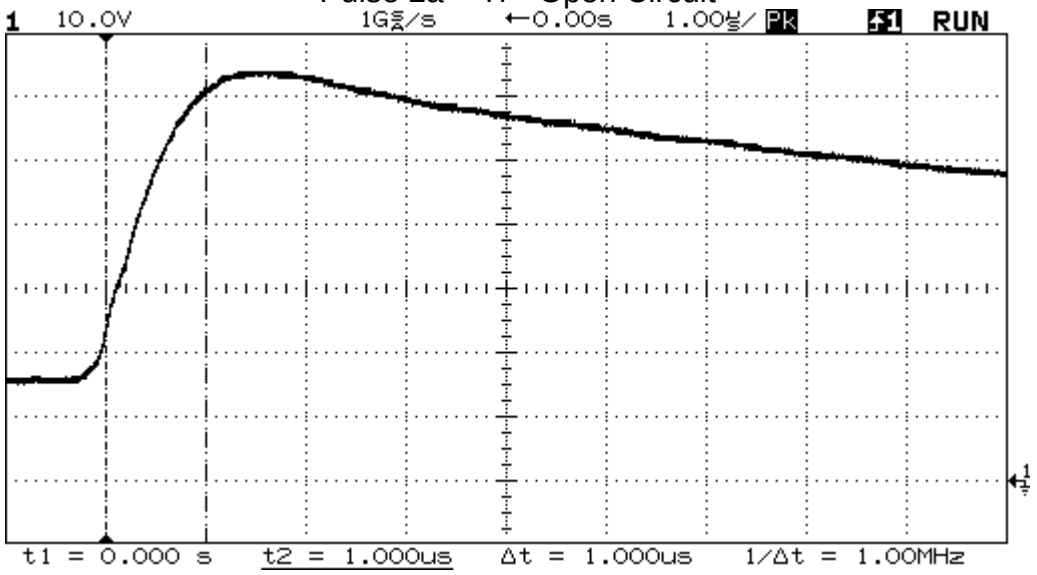
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 6
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2a – Tr - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

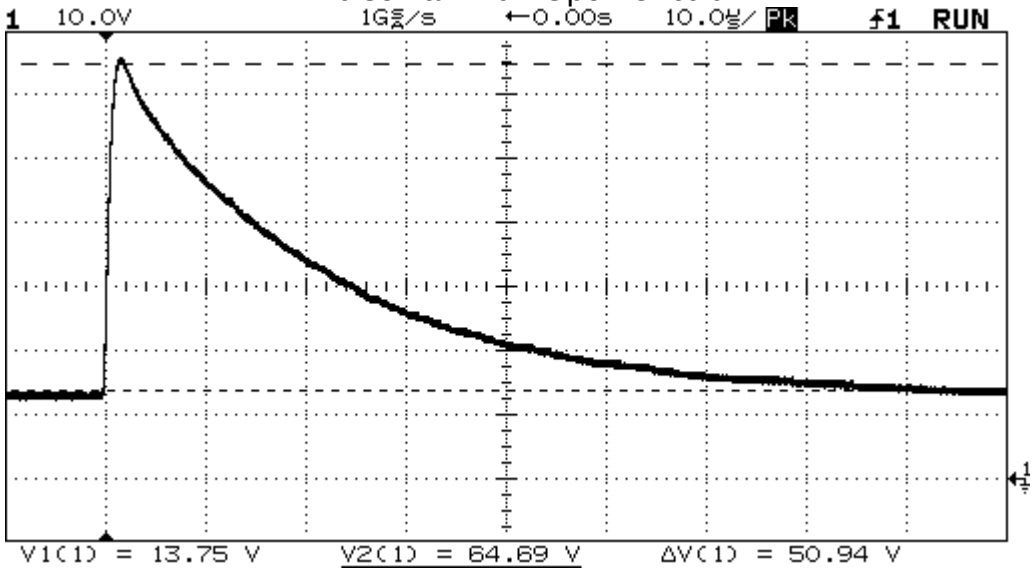
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 6
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2a – Td - Open Circuit



Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

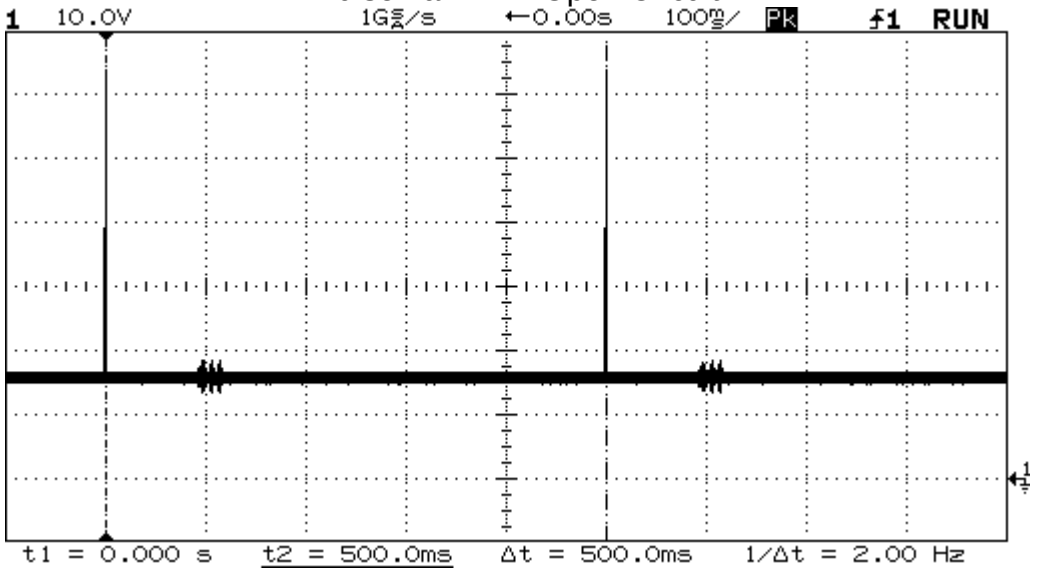
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 6
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2a – T1 - Open Circuit



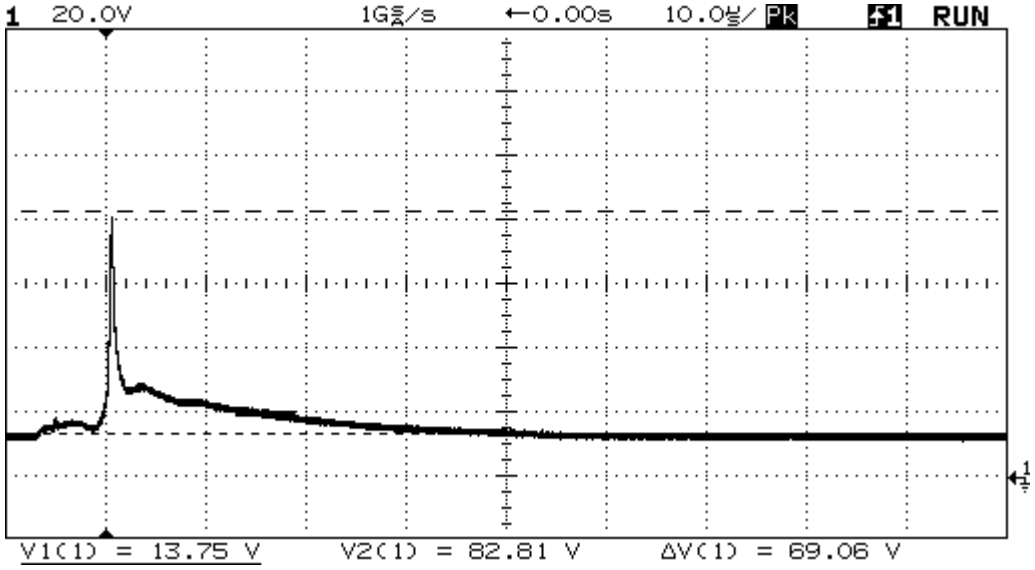
Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 6
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2a – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) Signature

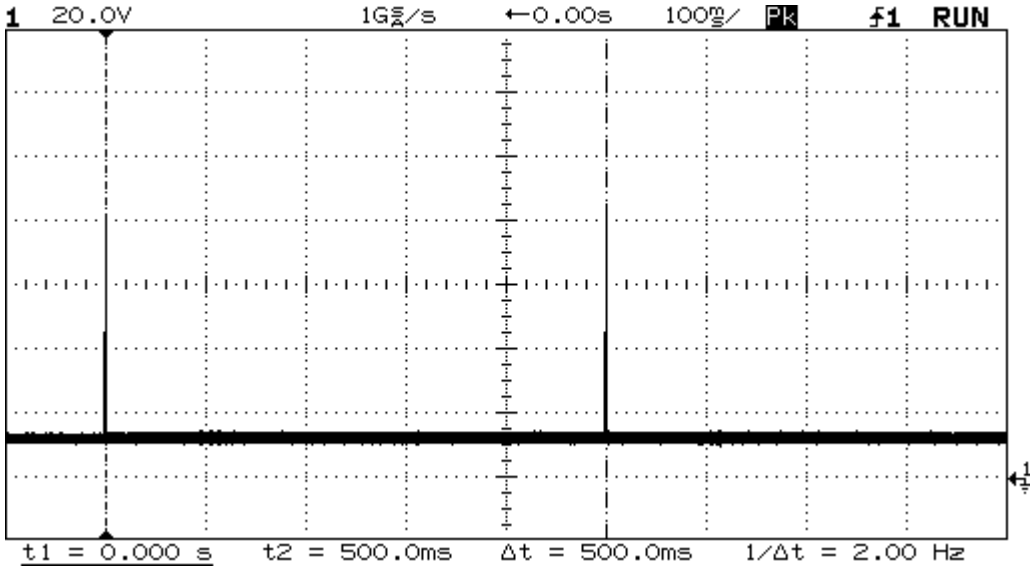
Reviewed by: David T Schaefer (Printed) Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 6
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2a – T1 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 4

Notes: Tested with 3A constant current load.

Test Voltage (Volts)	test Level (Volts)	Pulse Width (Sec)	Rep Rate (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	10	0.3	5	0.02	10	B	✓		EUT powers off and auto-recovers.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

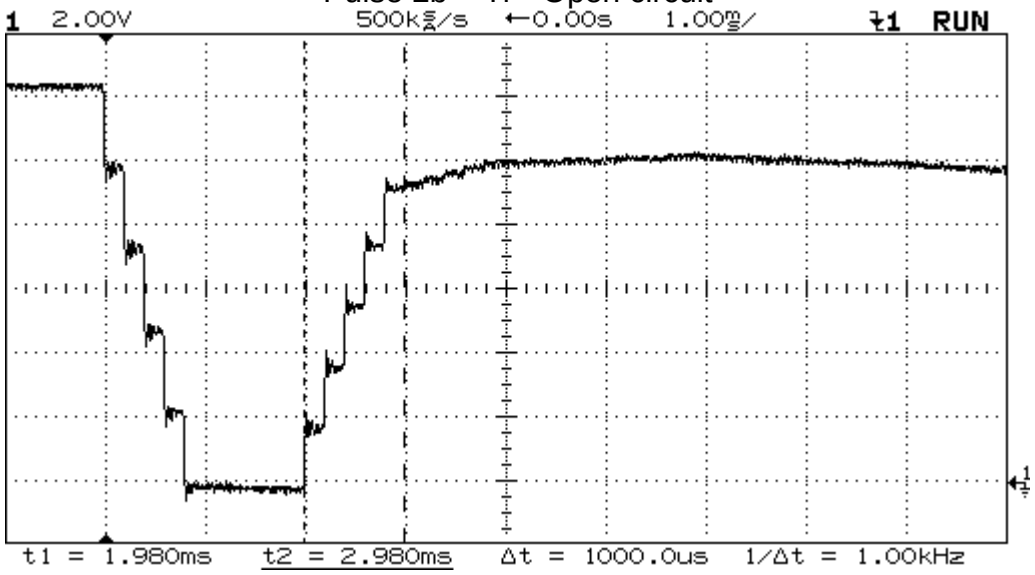
0

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 4
Notes:	Tested with 3A constant current load.				

Pulse 2b – Tr - Open circuit



Tested by: Doug Dahl (Printed) — Signature

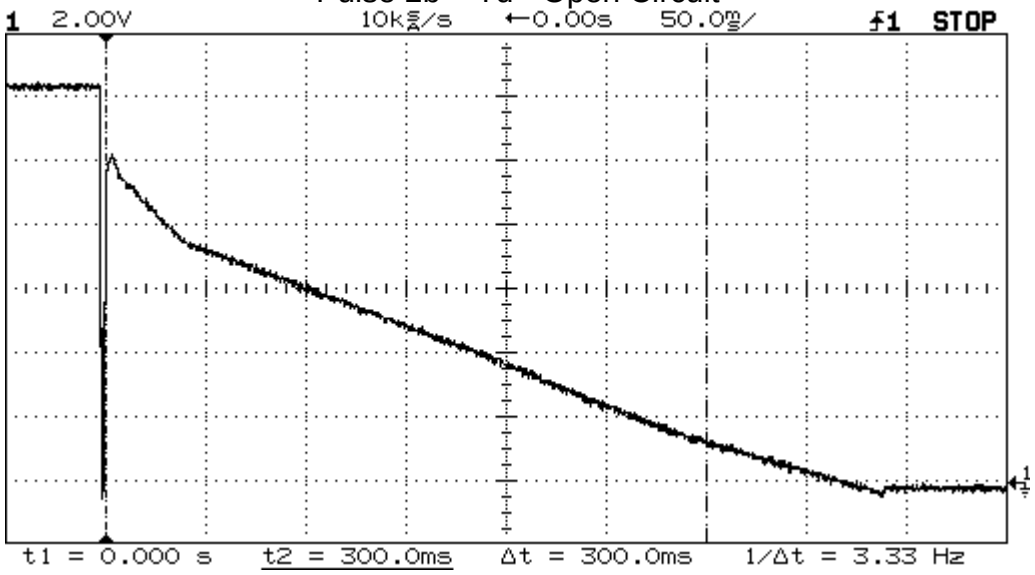
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 4
Notes:	Tested with 3A constant current load.				

Pulse 2b – Td - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

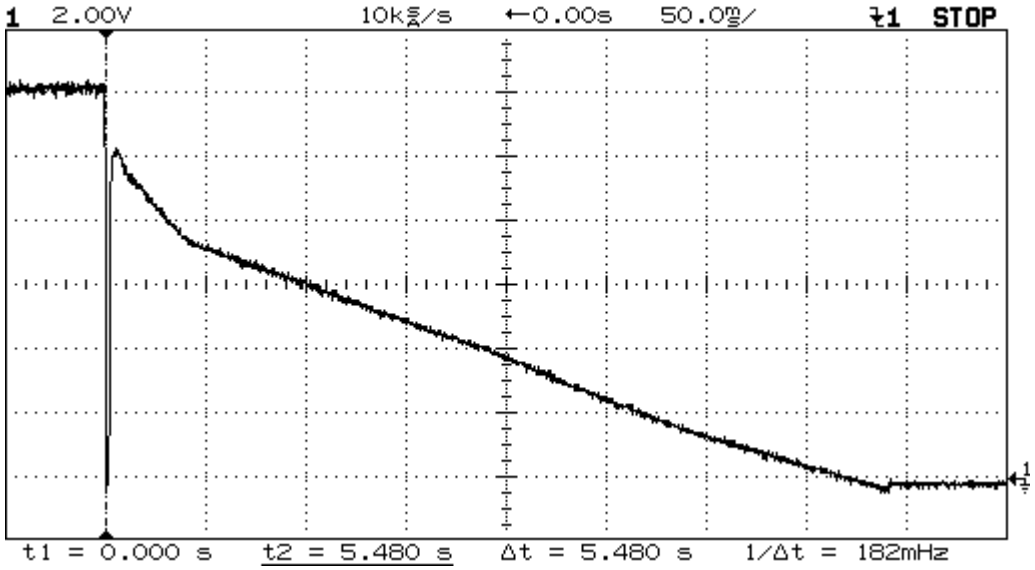
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 4
Notes:	Tested with 3A constant current load.				

Pulse 2b - Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 4

Notes: Tested with 8 Ohm resistor load.

Test Voltage (Volts)	test Level (Volts)	Pulse Width (Sec)	Rep Rate (Sec)	Source Impedance (Ohms)	repetitions	Criteria Met (Class)	Complies Yes	Complies No	Remarks
									Lead Description - DC Input Power
13.5	10	0.3	5	0.02	10	B	✓		EUT powers off and auto-recovers.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

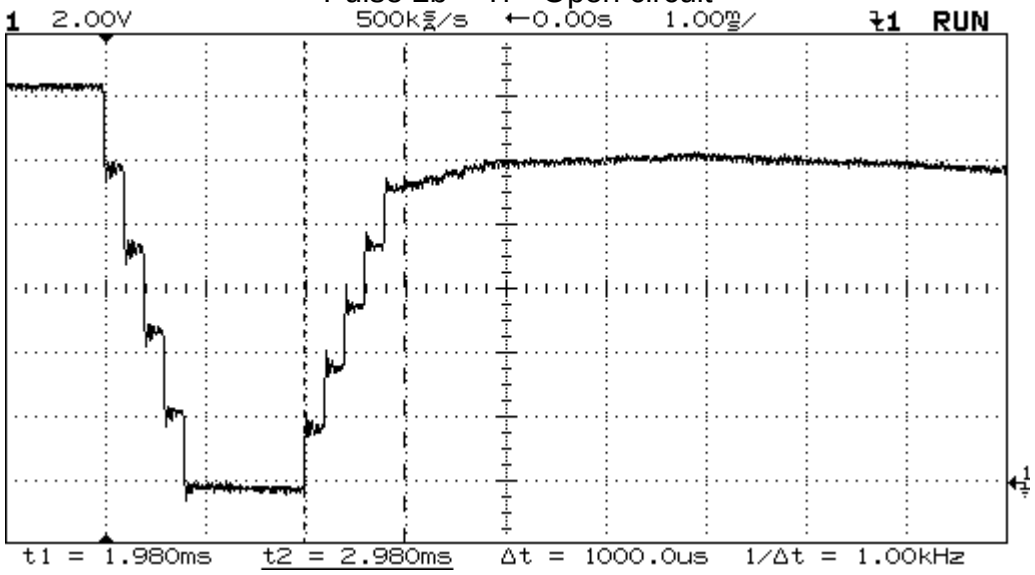
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 4
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2b – Tr - Open circuit



Tested by: Doug Dahl (Printed) — Signature

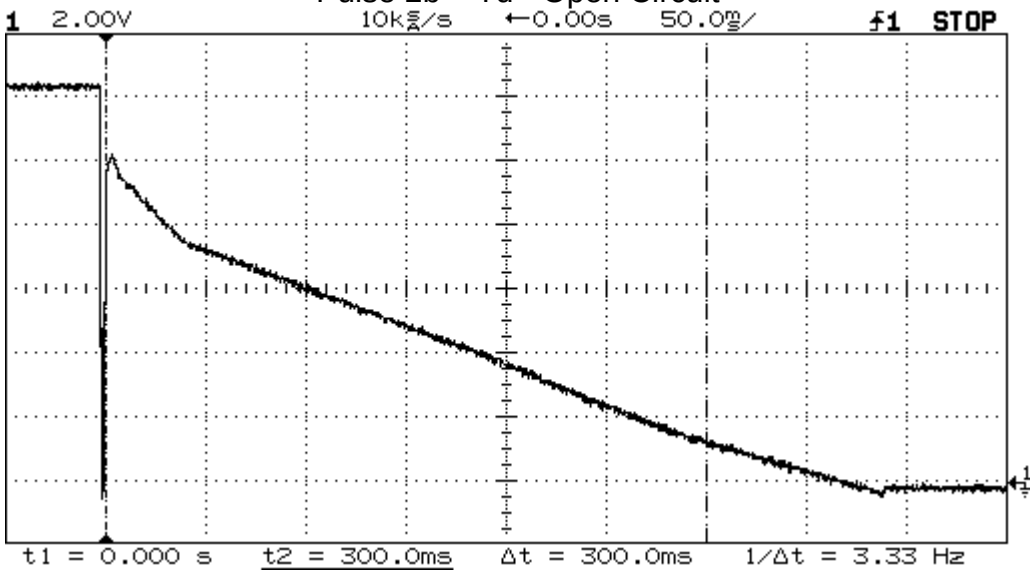
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 4
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2b – Td - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

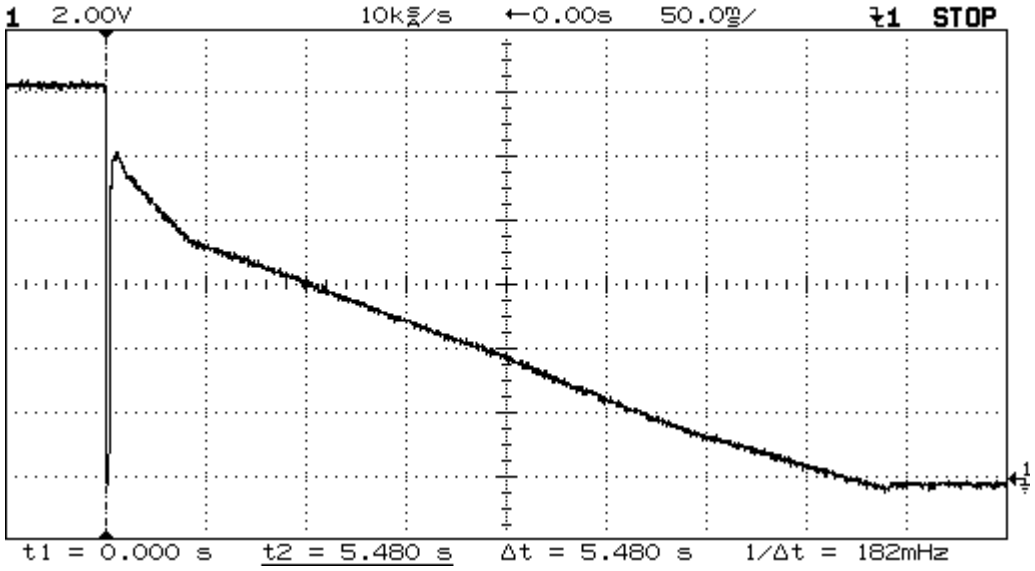
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 2b

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 4
Notes:	Tested with 8 Ohm resistor load.				

Pulse 2b - Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp2b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #: NC1302595 Test Area: 2

EUT Model #: DC2062A Date: 28 March, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 23.8 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 99.3 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 7

Notes: Tested with constant-current 3A Load.

Test Voltage (Volts)	test Level (Volts)	Rep Rate (uSec)	Burst Width (mSec)	Burst Period (mSec)	Source Impedance (Ohms)	Test Time (Min)	Criteria Met (Class)	Complies Yes	Complies No	Remarks
										Lead Description - DC Input Power
13.5	-150	100	10	100	50	60	A	✓		Level 4 passed.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

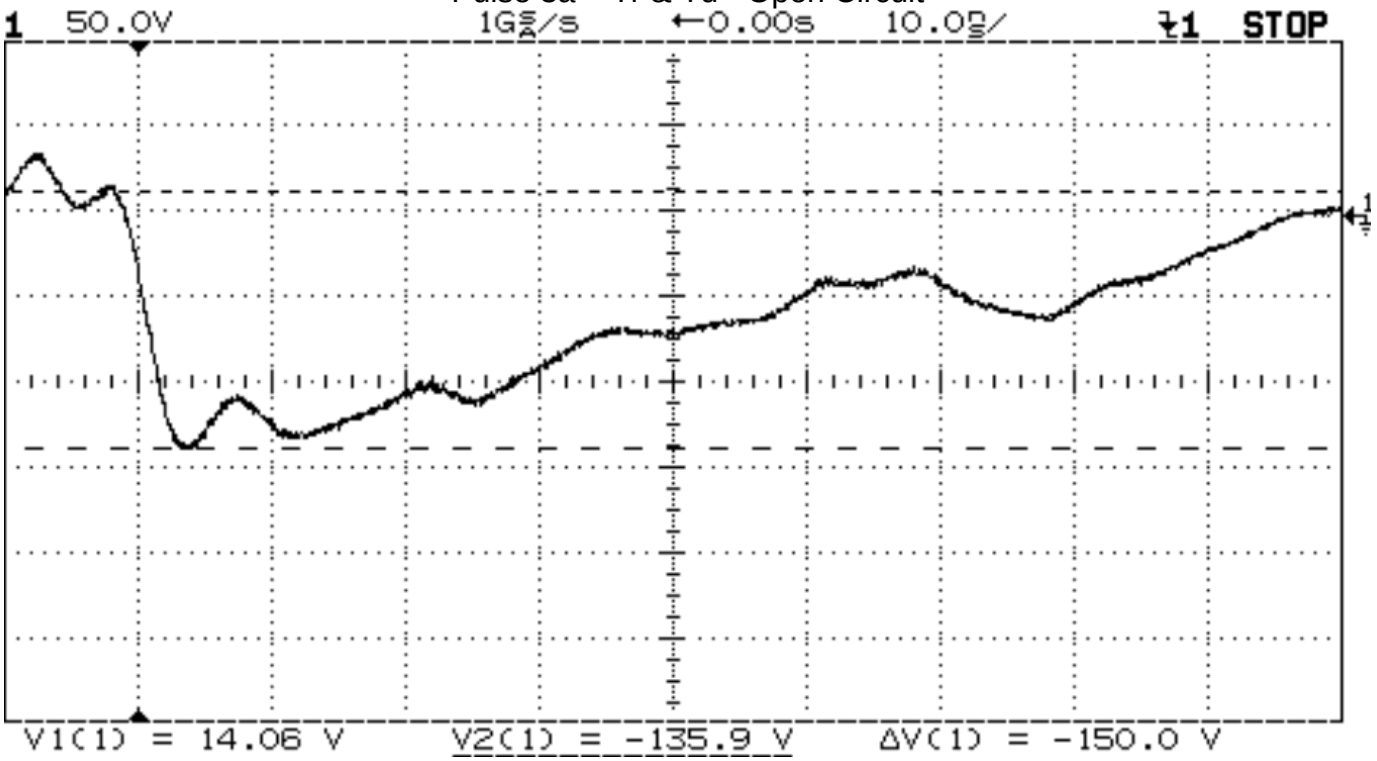
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – Tr & Td - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

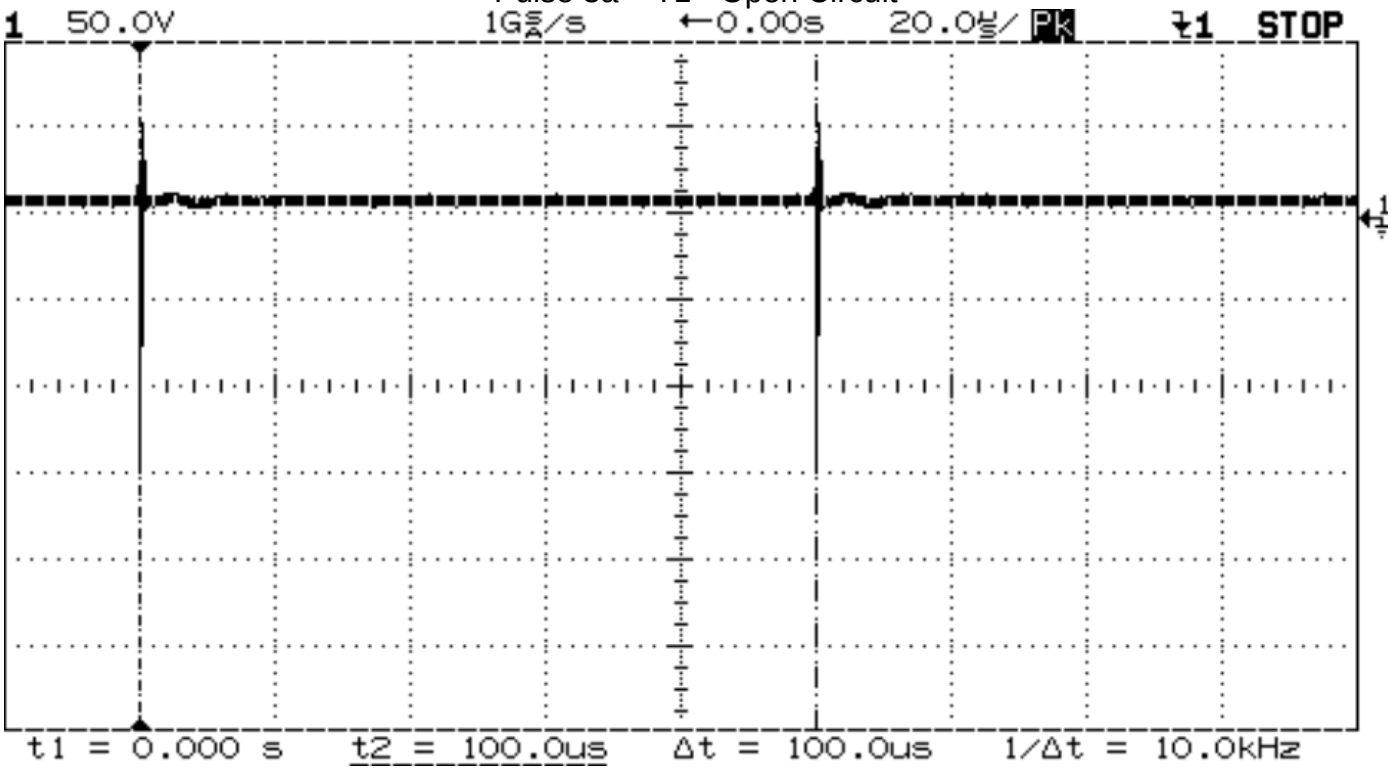
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – T1 - Open Circuit



Tested by: Doug Dahl (Printed) Signature

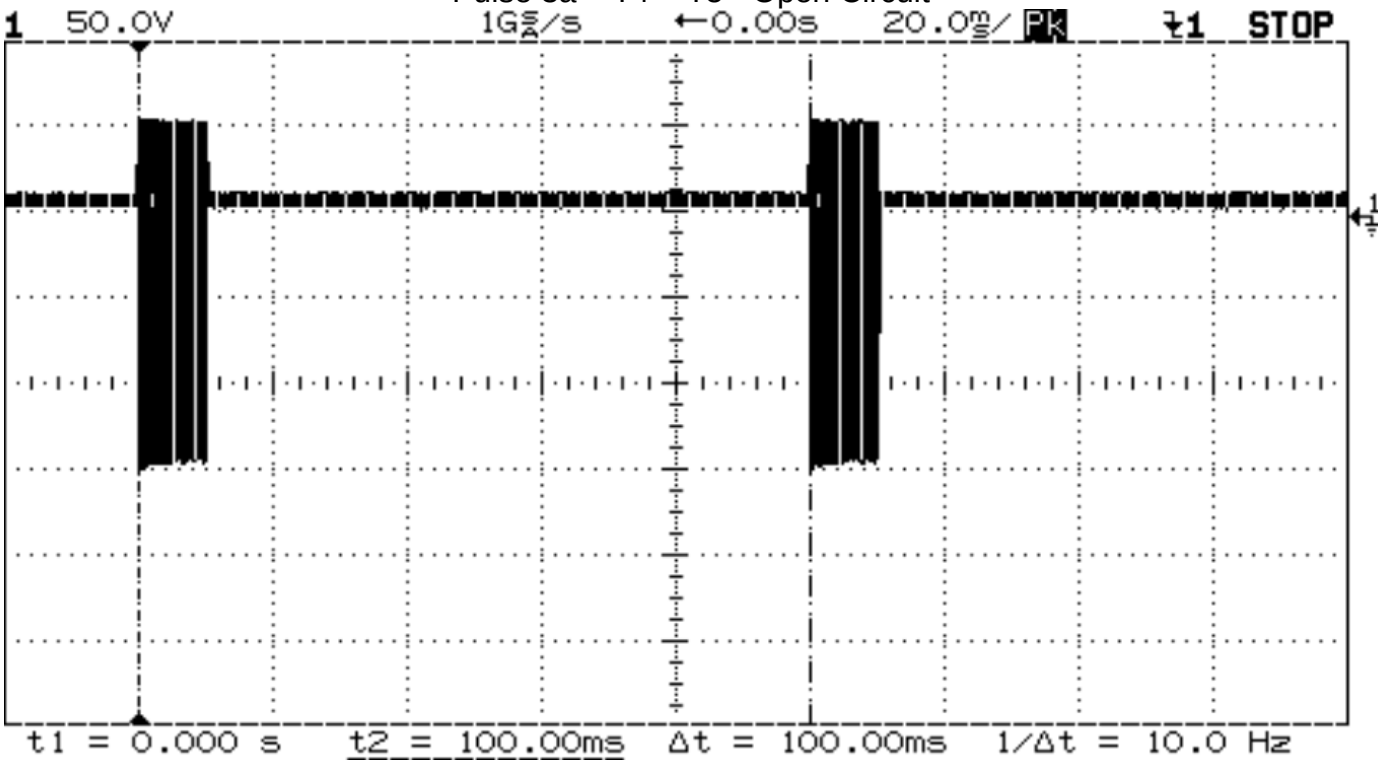
Reviewed by: David T Schaefer (Printed) Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – T4 + T5 - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

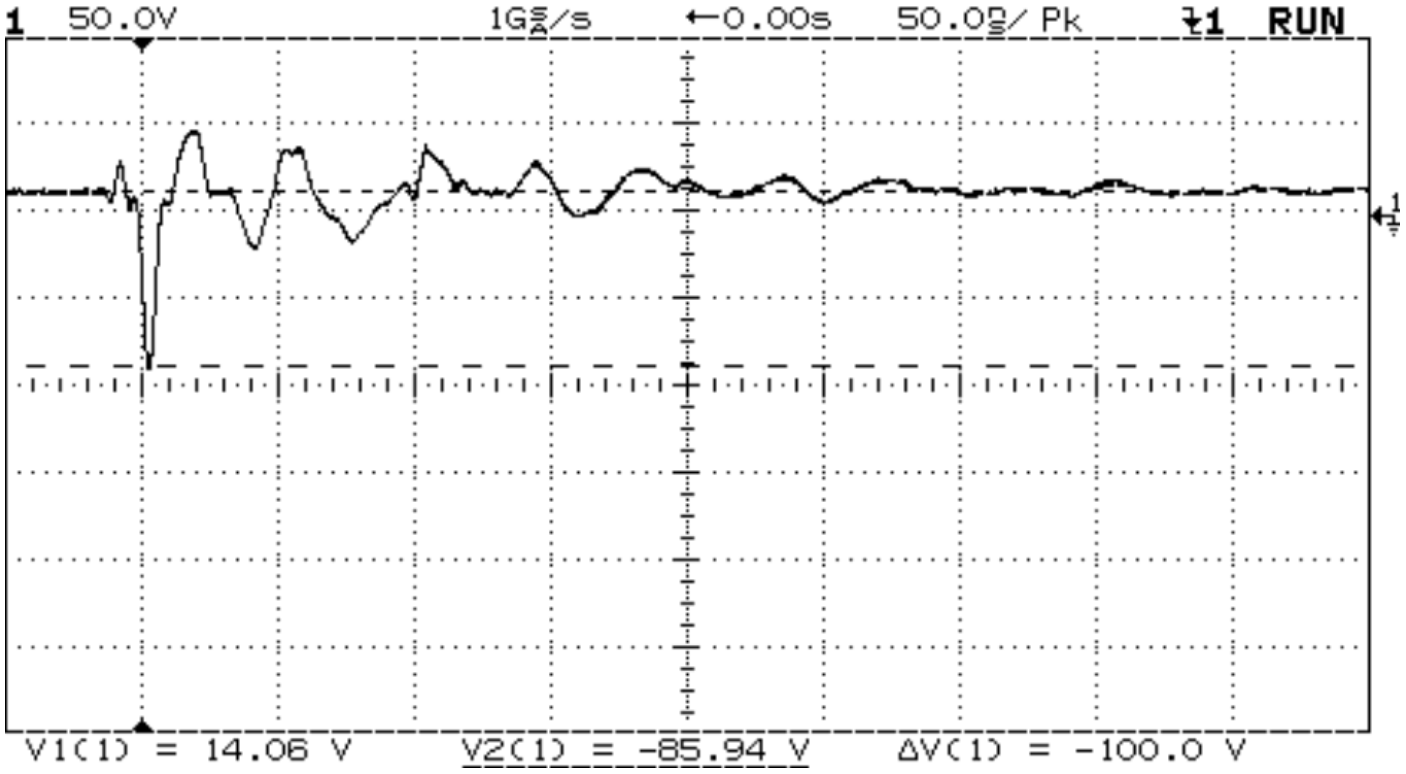
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

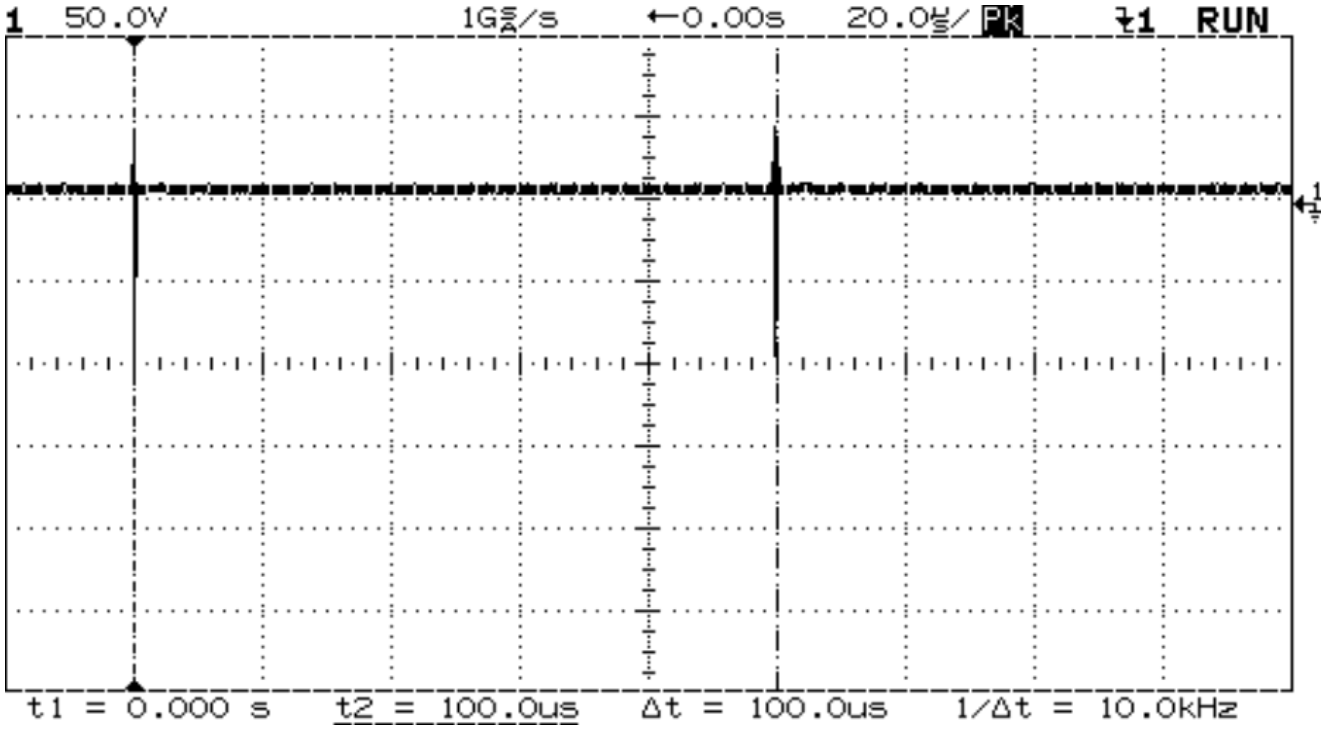
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – T1 - EUT Load



Tested by: Doug Dahl (Printed) — Signature

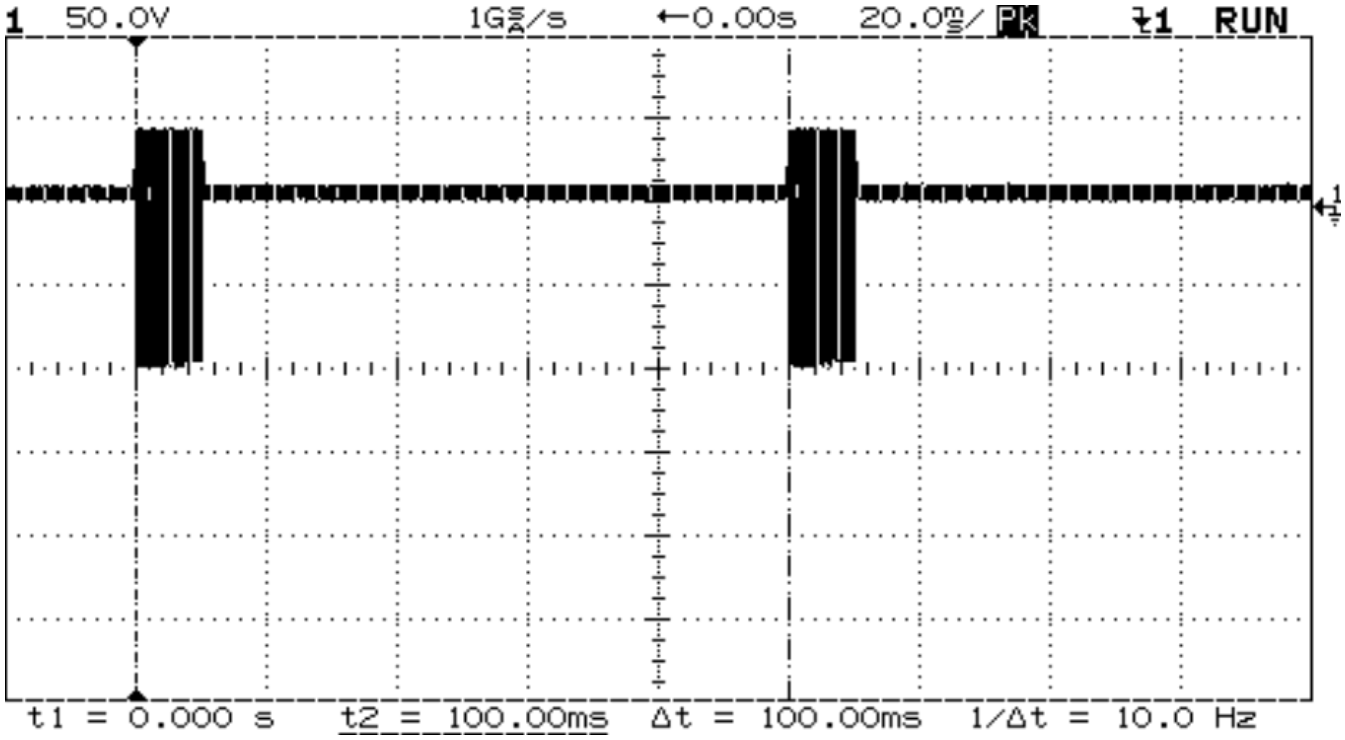
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	7 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3a – T4 + T5 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 7

Notes: Tested with 8-Ohm resistive Load.

Test Voltage (Volts)	test Level (Volts)	Rep Rate (uSec)	Burst Width (mSec)	Burst Period (mSec)	Source Impedance (Ohms)	Test Time (Min)	Criteria Met (Class)	Complies Yes	Complies No	Remarks
										Lead Description - DC Input Power
13.5	-150	100	10	100	50	60	A	✓		Level 4 passed.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

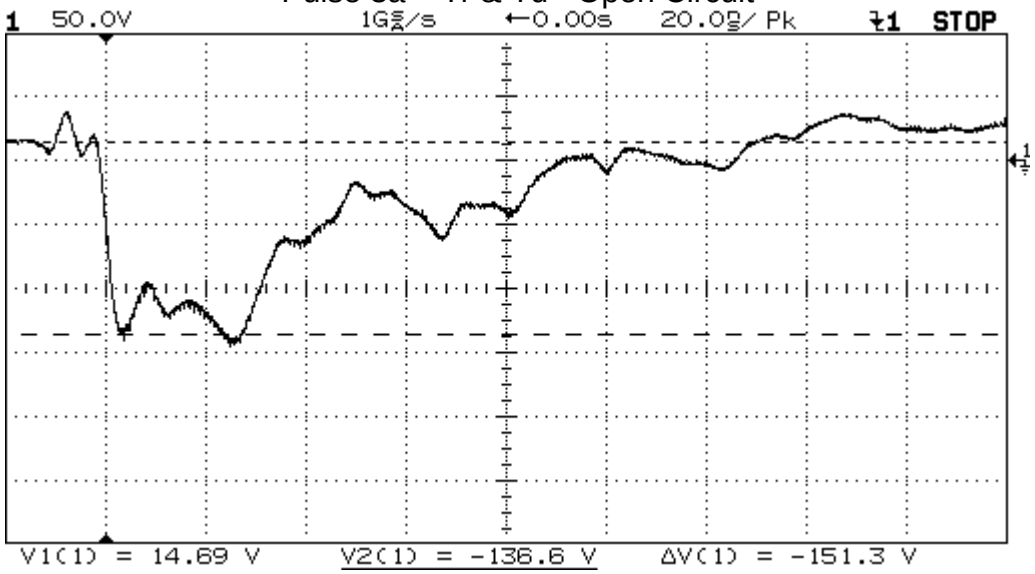
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – Tr & Td - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

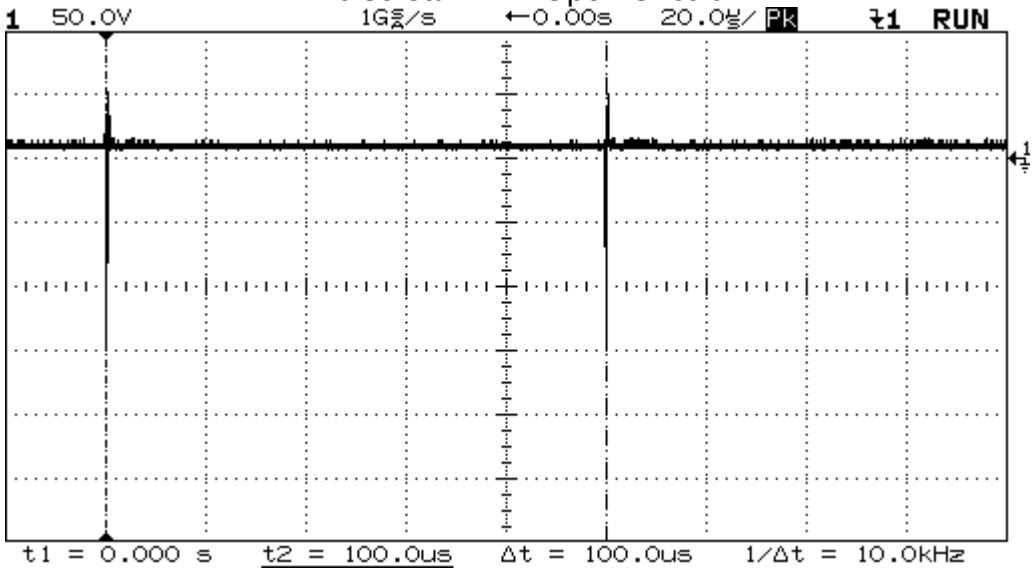
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – T1 - Open Circuit



Tested by: Doug Dahl (Printed) Signature

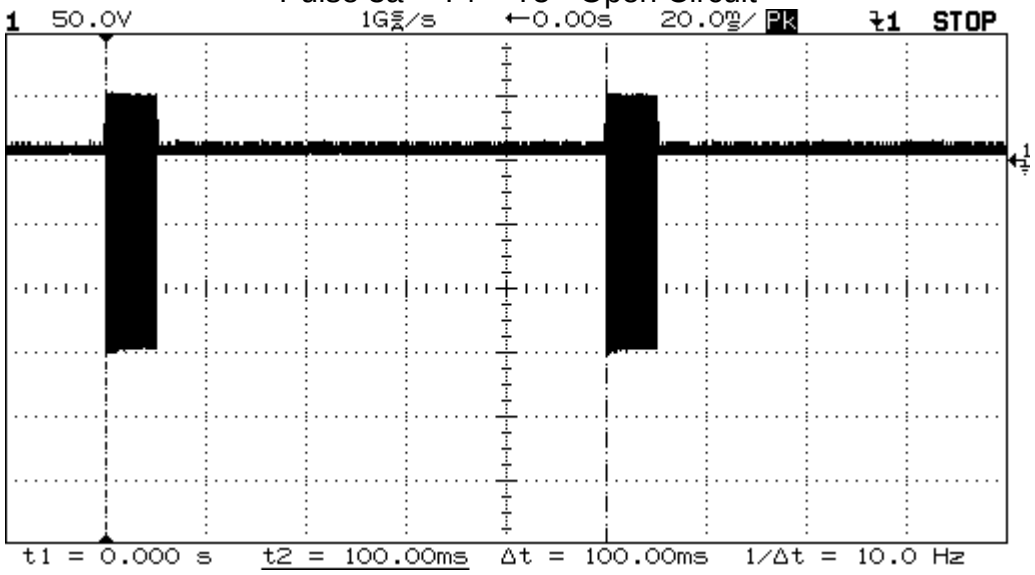
Reviewed by: David T Schaefer (Printed) Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – T4 + T5 - Open Circuit



Tested by: Doug Dahl (Printed) — Signature

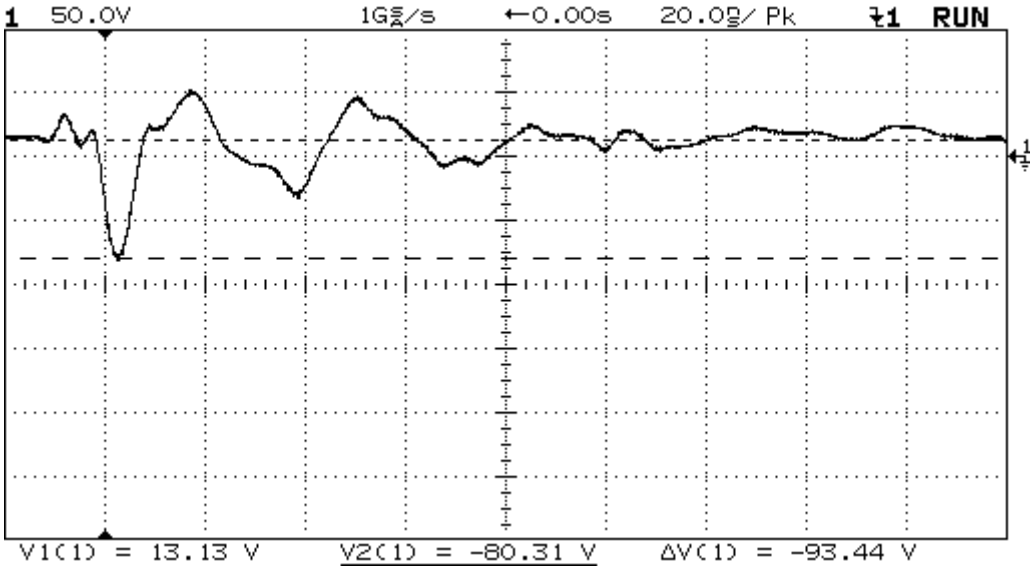
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

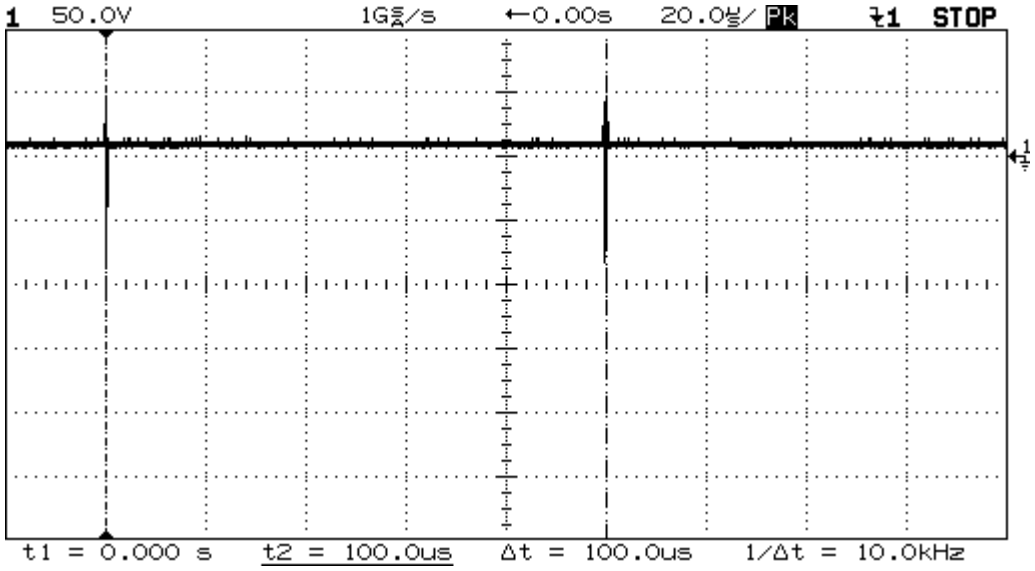
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – T1 - EUT Load



Tested by: Doug Dahl (Printed) — Signature

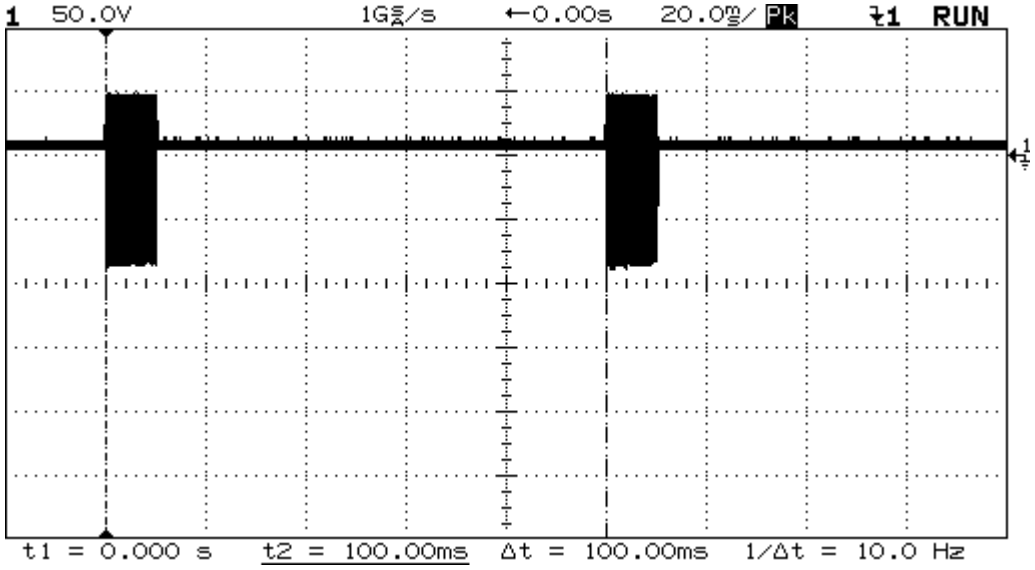
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	7 of 7
Notes:	Tested with 8-Ohm resistive Load.				

Pulse 3a – T4 + T5 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3a2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #: NC1302595 Test Area: 2

EUT Model #: DC2062A Date: 28 March, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 23.8 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 99.3 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 7

Notes: Tested with constant-current 3A Load.

Test Voltage (Volts)	test Level (Volts)	Rep Rate (uSec)	Burst Width (mSec)	Burst Period (mSec)	Source Impedance (Ohms)	Test Time (Min)	Criteria Met (Class)	Complies Yes	Complies No	Remarks
										Lead Description - DC Input Power
13.5	100	100	10	100	50	60	A	✓		Level 4 passed.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

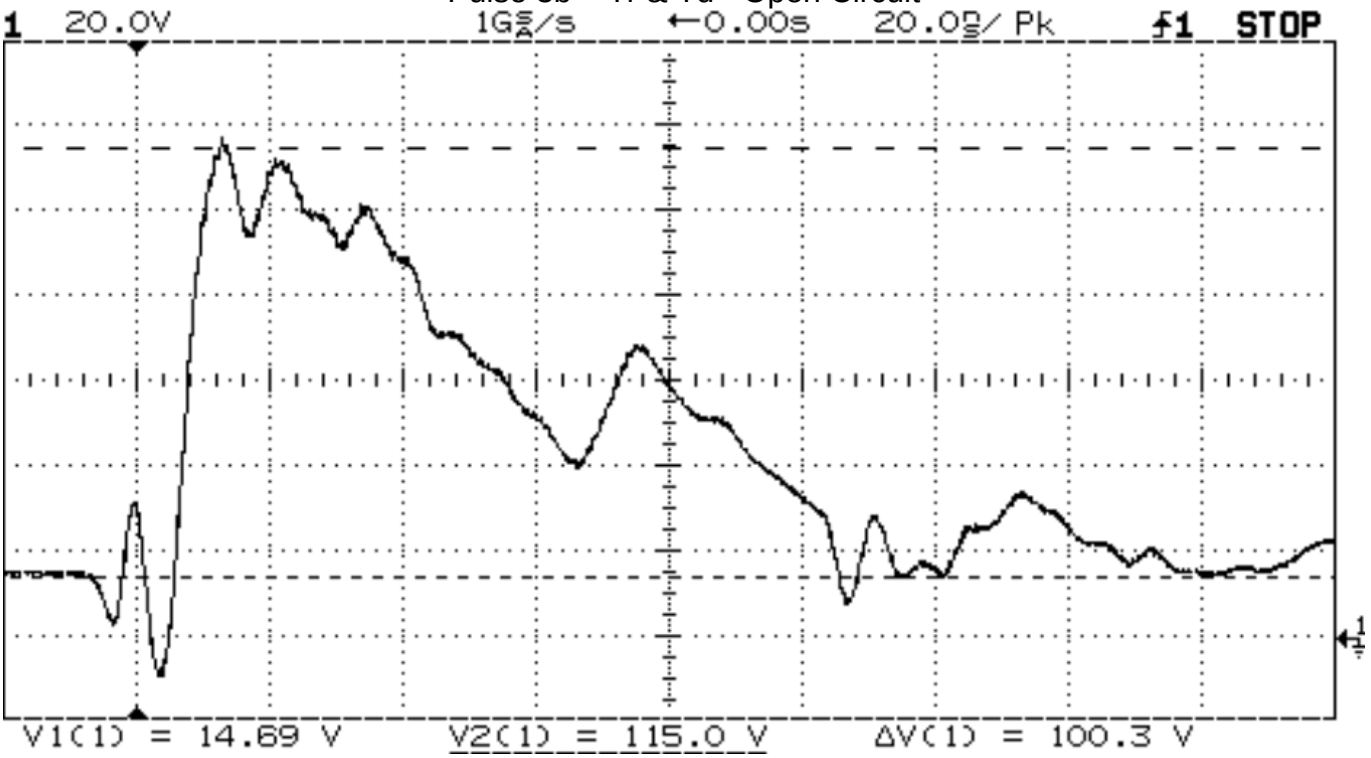
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – Tr & Td - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

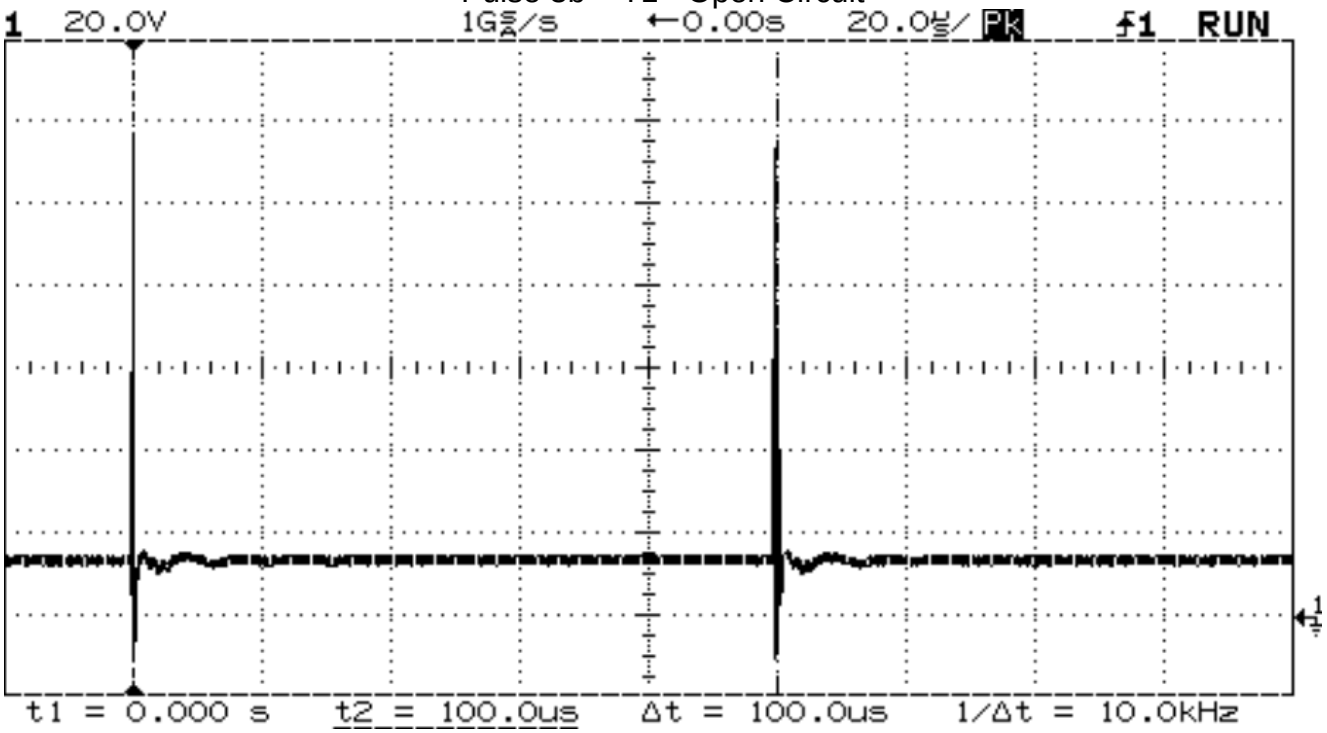
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – T1 - Open Circuit



Tested by: Doug Dahl (Printed) (Signature)

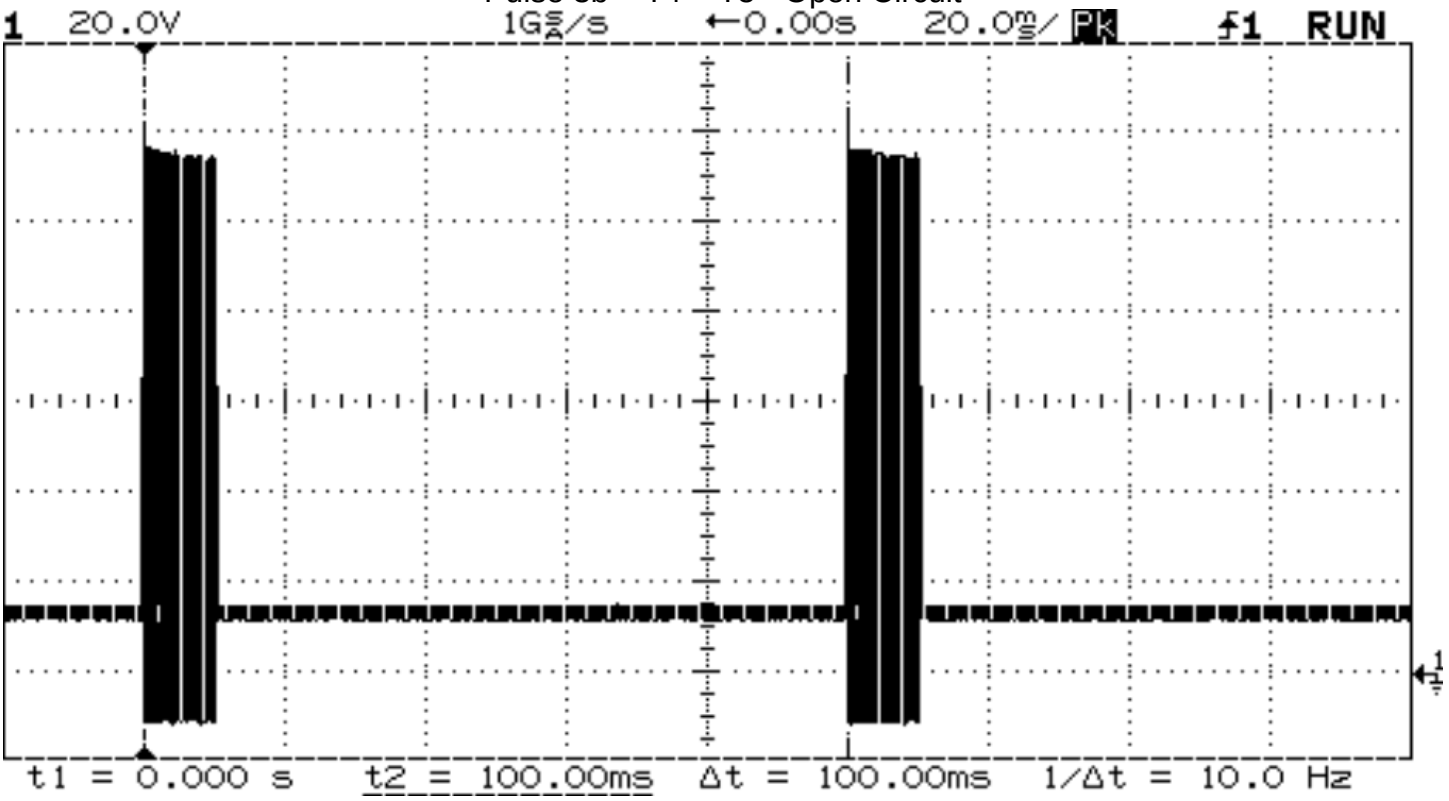
Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	4 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – T4 + T5 - Open Circuit



Tested by: Doug Dahl (Printed) Signature

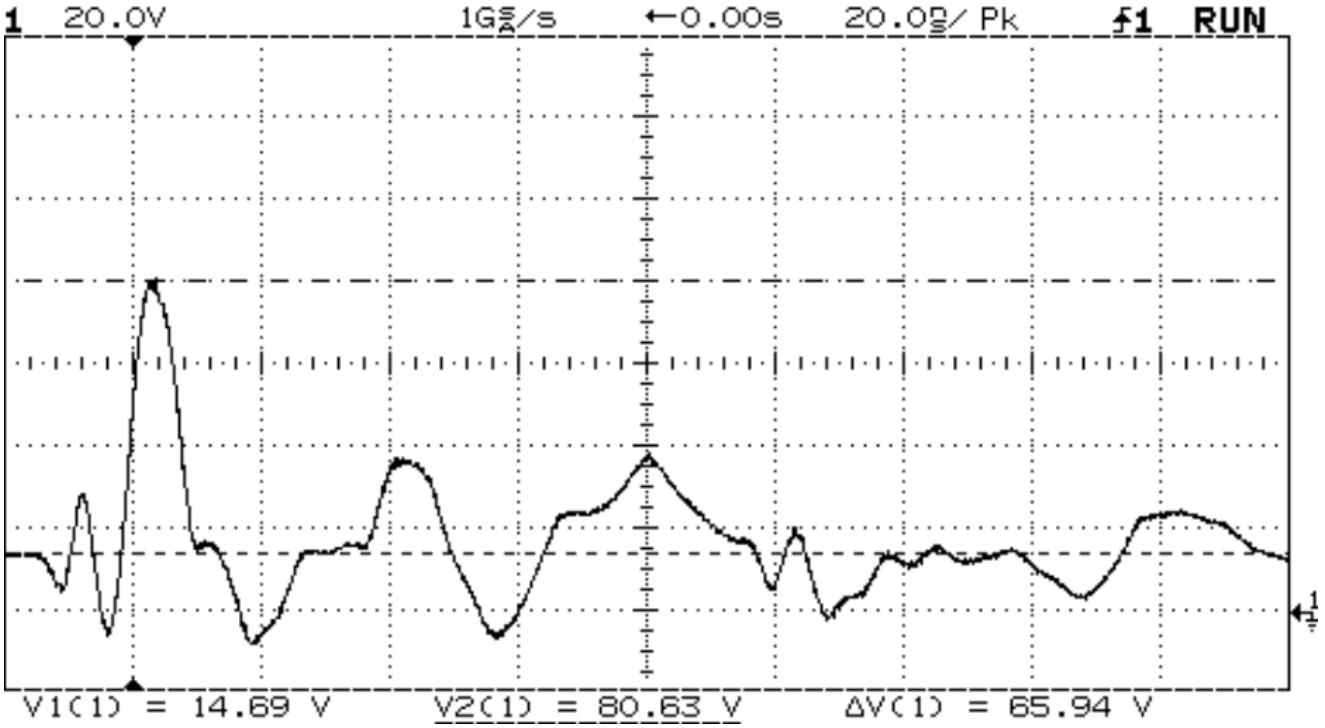
Reviewed by: David T Schaefer (Printed) Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	5 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

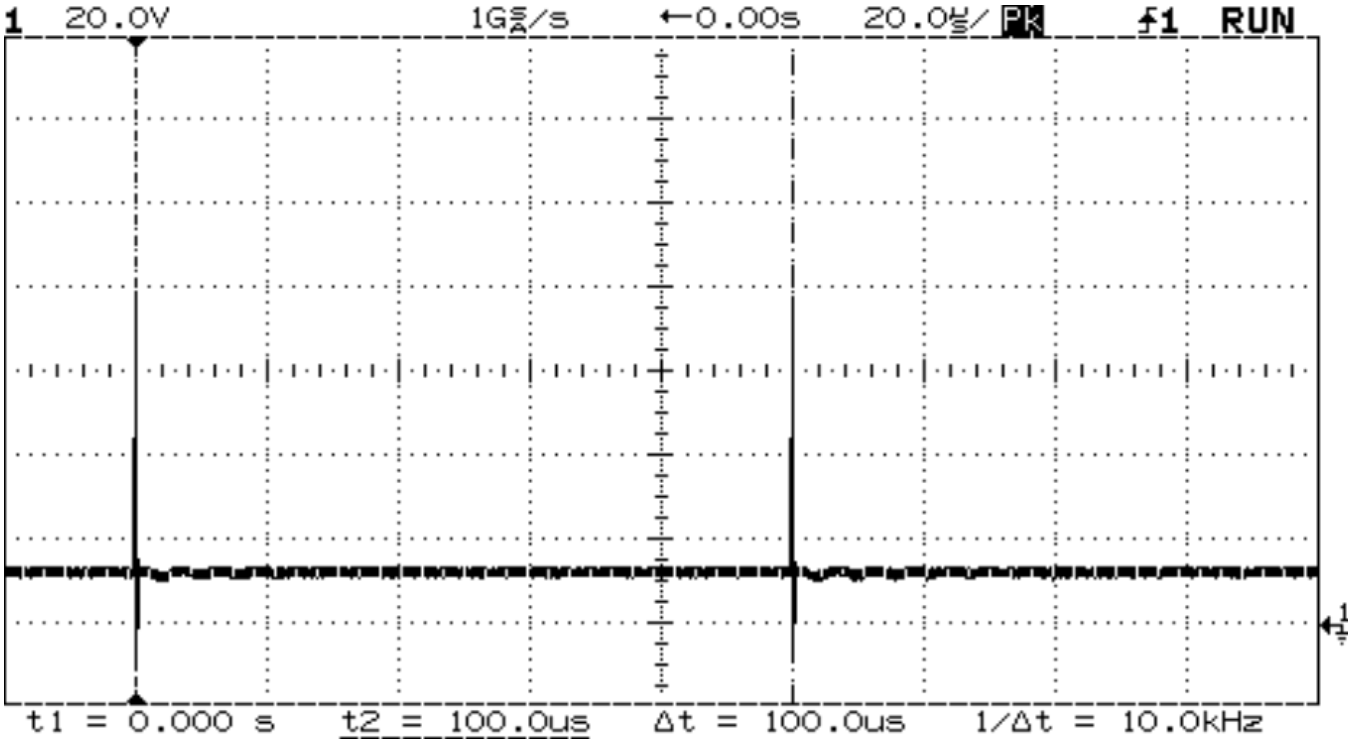
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	6 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – T1 - EUT Load



Tested by: Doug Dahl (Printed) — Signature

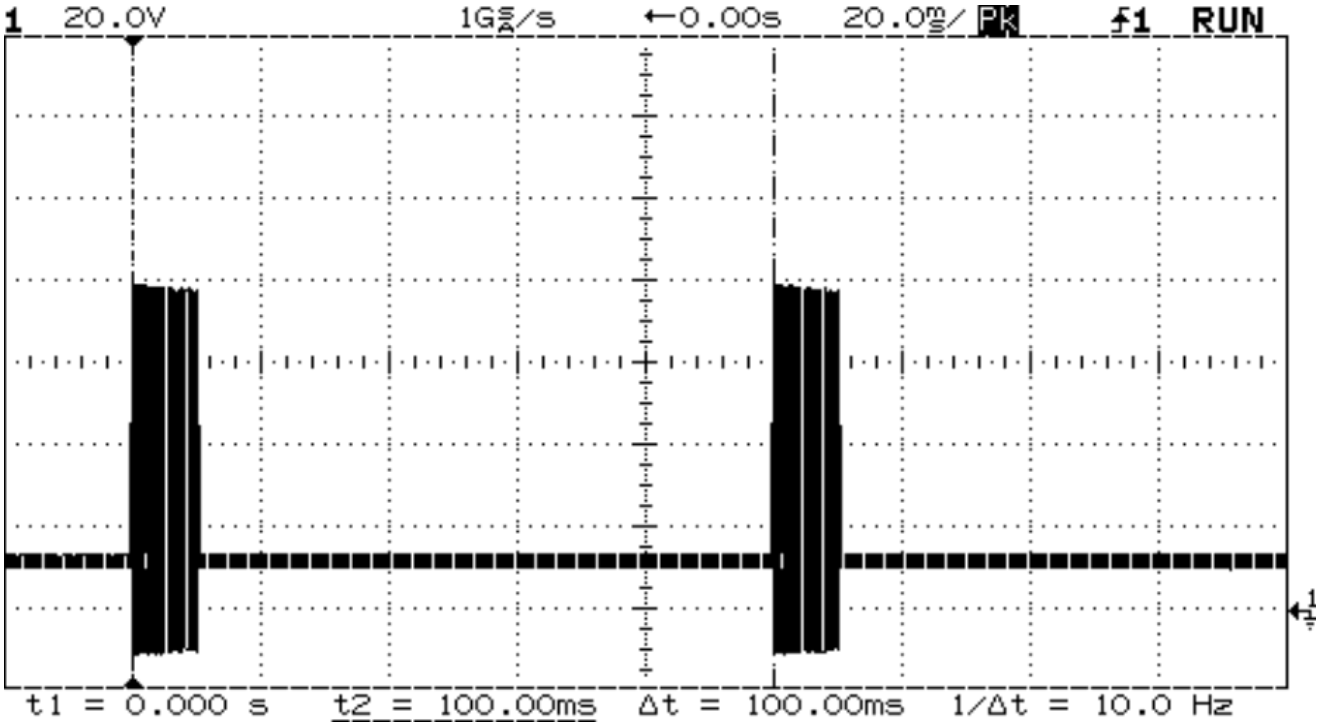
Reviewed by: David T Schaefer (Printed) — Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	28 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	23.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.3 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	7 of 7
Notes:	Tested with constant-current 3A Load.				

Pulse 3b – T4 + T5 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #: NC1302595 Test Area: 2

EUT Model #: DC2062A Date: 29 March, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 24.8 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 99.1 kPa

Customer: Linear Technology Relative Humidity: 26.7 %

EUT Description: Demoboard Page: 1 of 7

Notes: Tested with 8-Ohm resistive load.

Test Voltage (Volts)	test Level (Volts)	Rep Rate (uSec)	Burst Width (mSec)	Burst Period (mSec)	Source Impedance (Ohms)	Test Time (Min)	Criteria Met (Class)	Complies Yes	Complies No	Remarks
										Lead Description - DC Input Power
13.5	100	100	10	100	50	60	A	✓		Level 4 passed.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

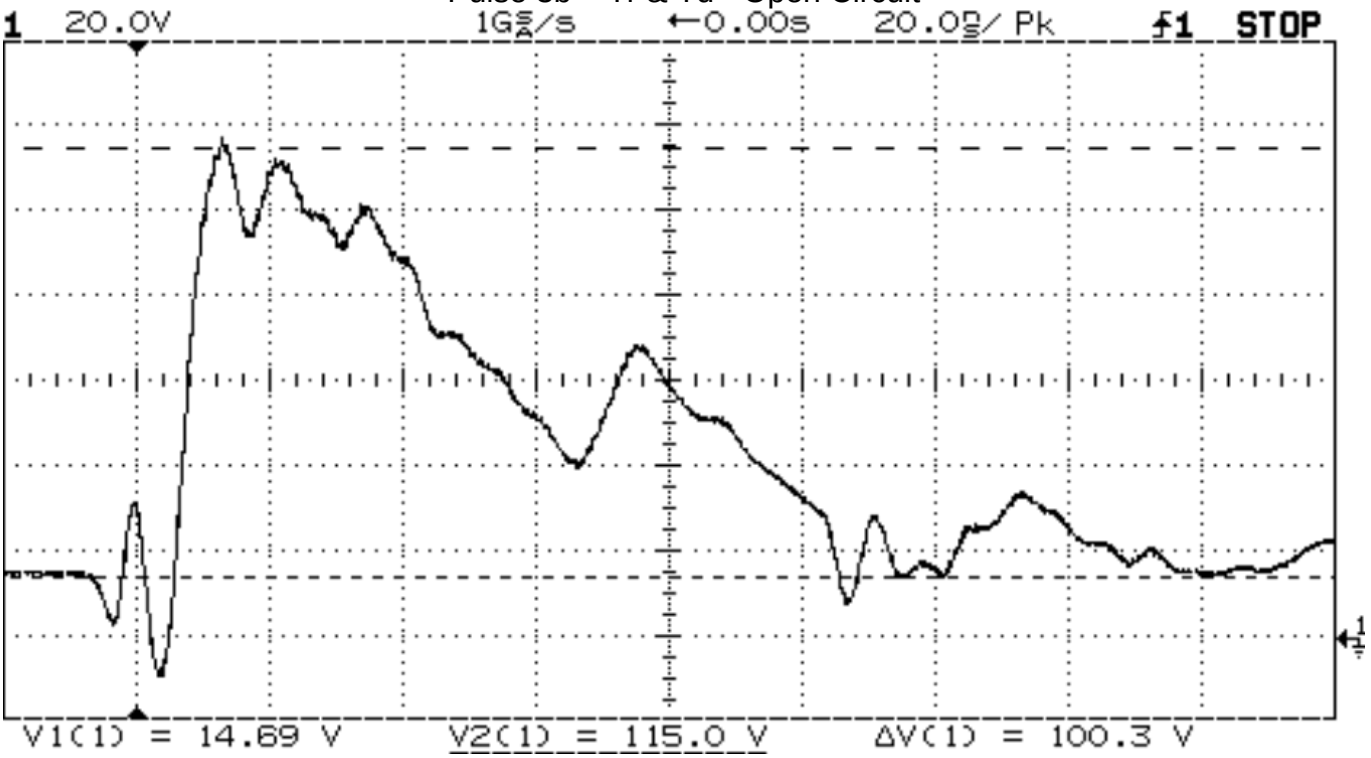
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	2 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – Tr & Td - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

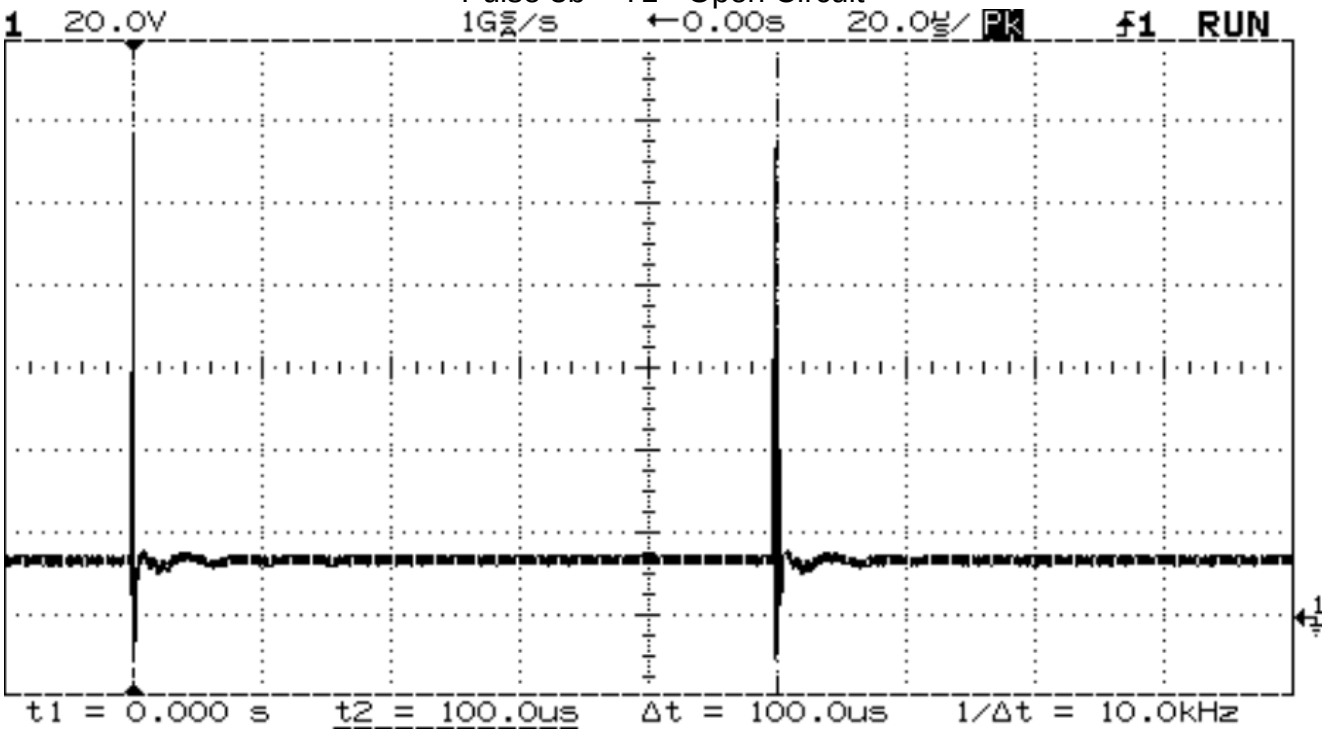
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	3 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – T1 - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

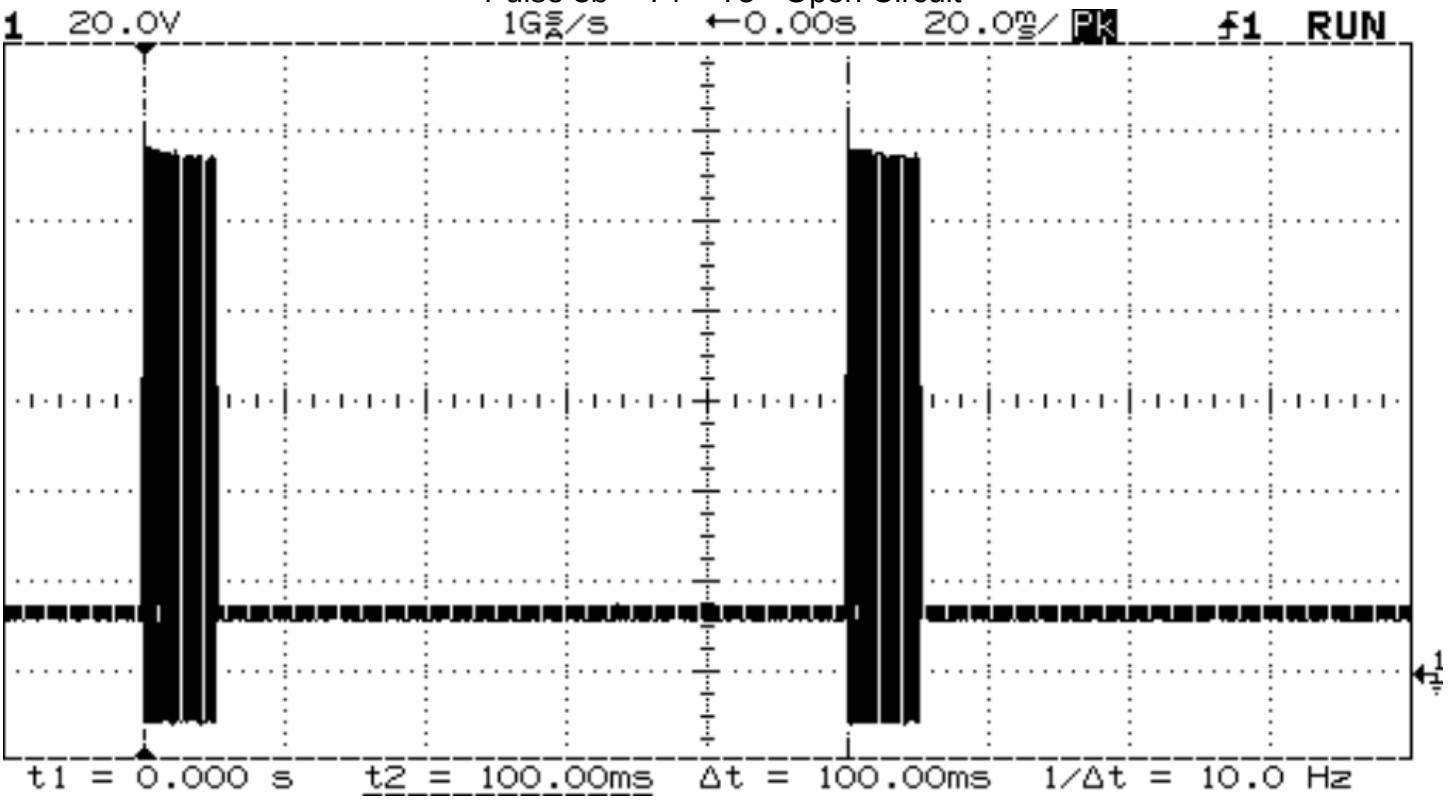
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	4 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – T4 + T5 - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

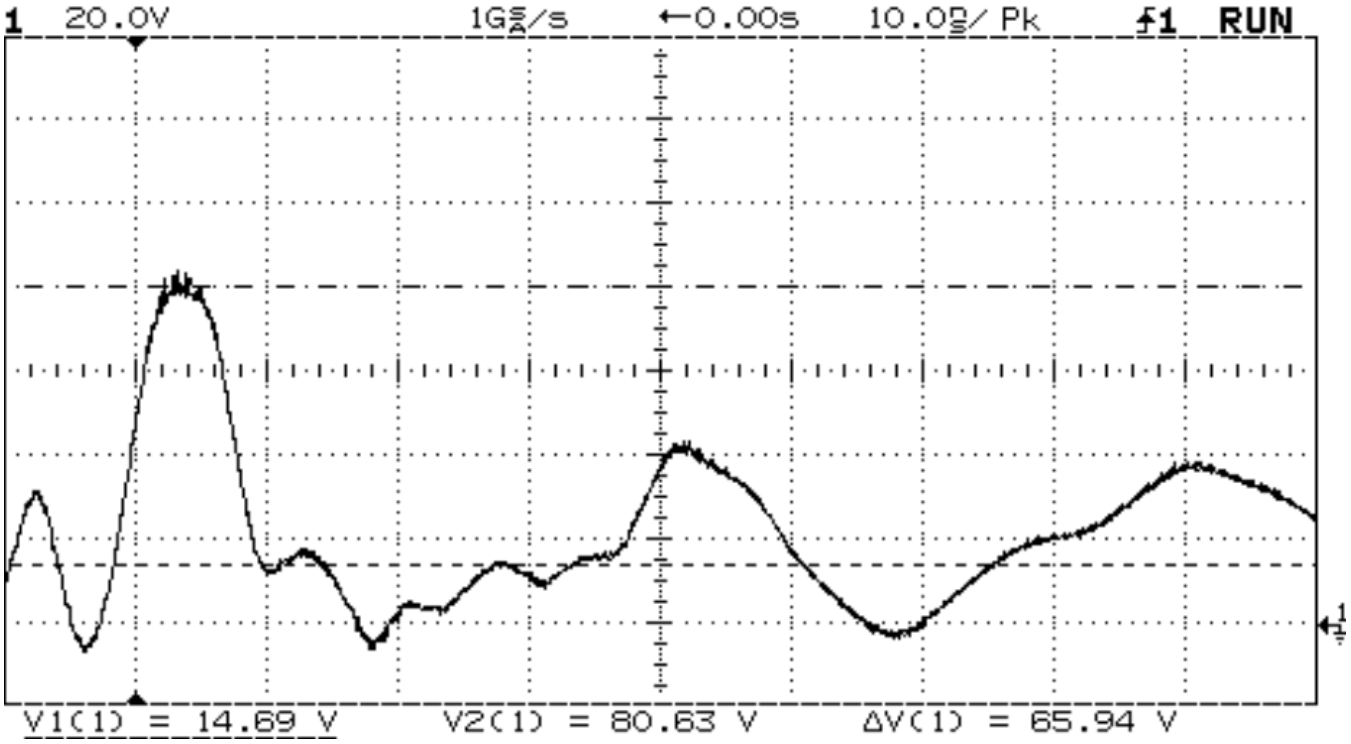
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	5 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – Tr & Td - EUT Load



Tested by: Doug Dahl (Printed) (Signature)

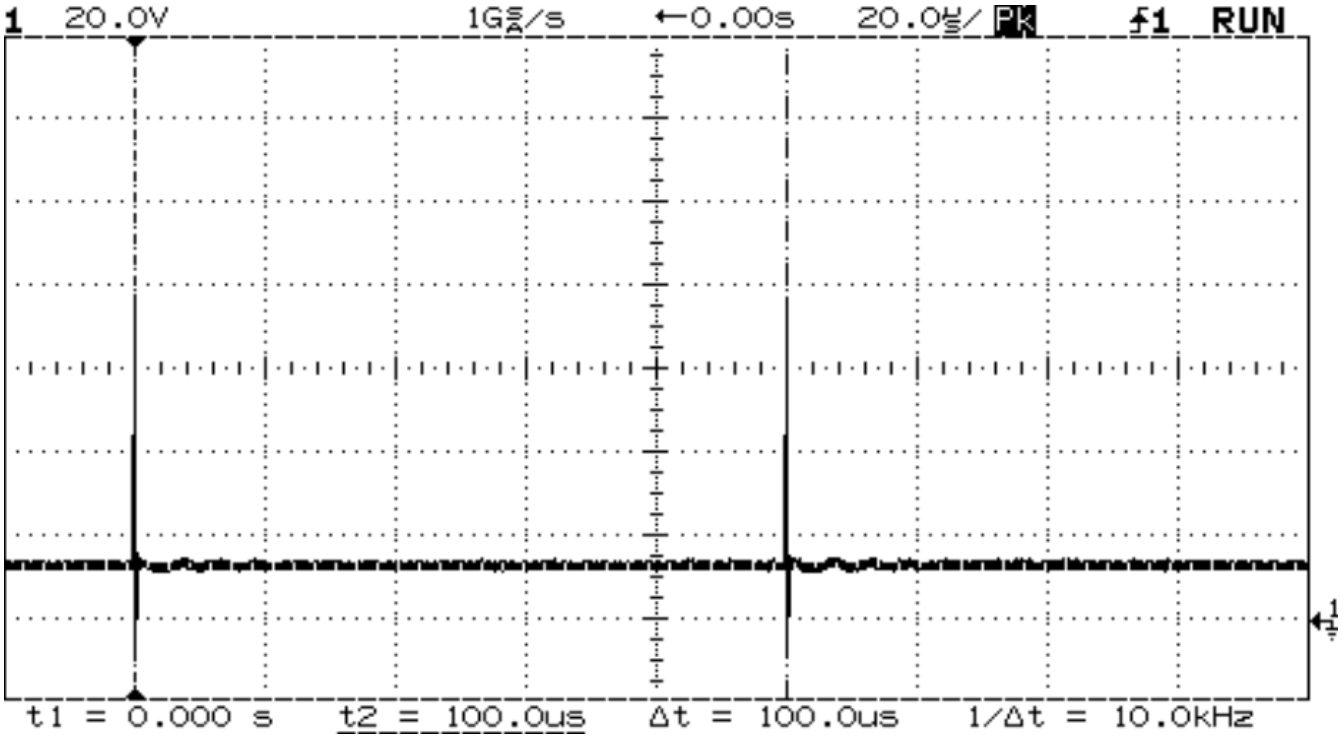
Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	6 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – T1 - EUT Load



Tested by: Doug Dahl (Printed) (Signature)

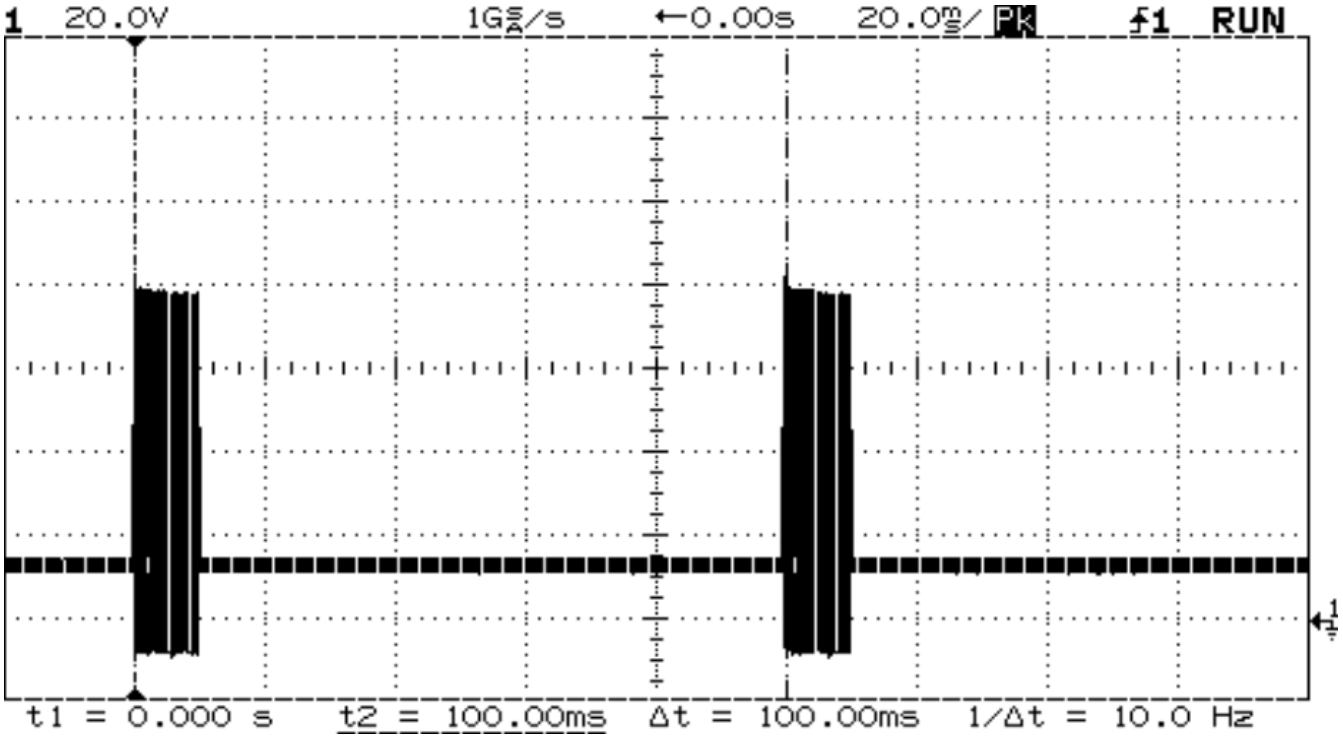
Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 3b

Test Report #:	NC1302595	Test Area:	2		
EUT Model #:	DC2062A	Date:	29 March, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	24.8 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	99.1 kPa
Customer:	Linear Technology			Relative Humidity:	26.7 %
EUT Description:	Demoboard			Page:	7 of 7
Notes:	Tested with 8-Ohm resistive load.				

Pulse 3b – T4 + T5 - EUT Load



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp3b2-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 12 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 3

Notes: Tested with 3A constant current load.

TEST VOLTAGE (VOLTS)	TEST LEVEL (VOLTS) US	TRANSIENT TIME (mSec)	TEST LEVEL (VOLTS) UA	TRANSIENT TIME SEC	SOURCE Impedance (Ohms)	REPETITIONS	CRITERIA Met (Class)	COMPLIES YES	COMPLIES NO	REMARKS
										Lead Description - DC Input Power
12	-7	40	-6	10	0.02	3	B	✓		EUT powered off and auto recovered.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

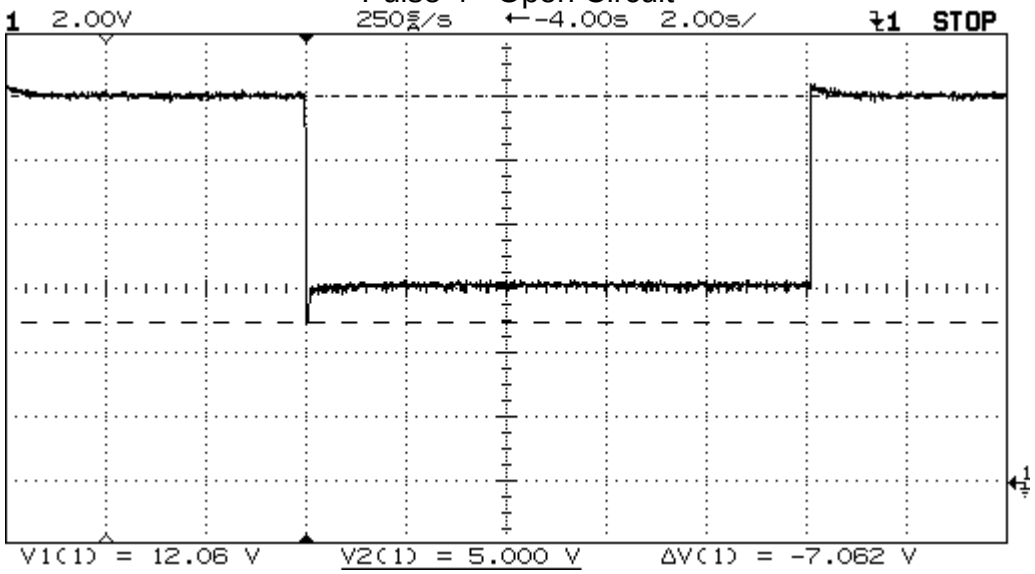
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	12 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 3
Notes:	Tested with 3A constant current load.				

Pulse 4 - Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

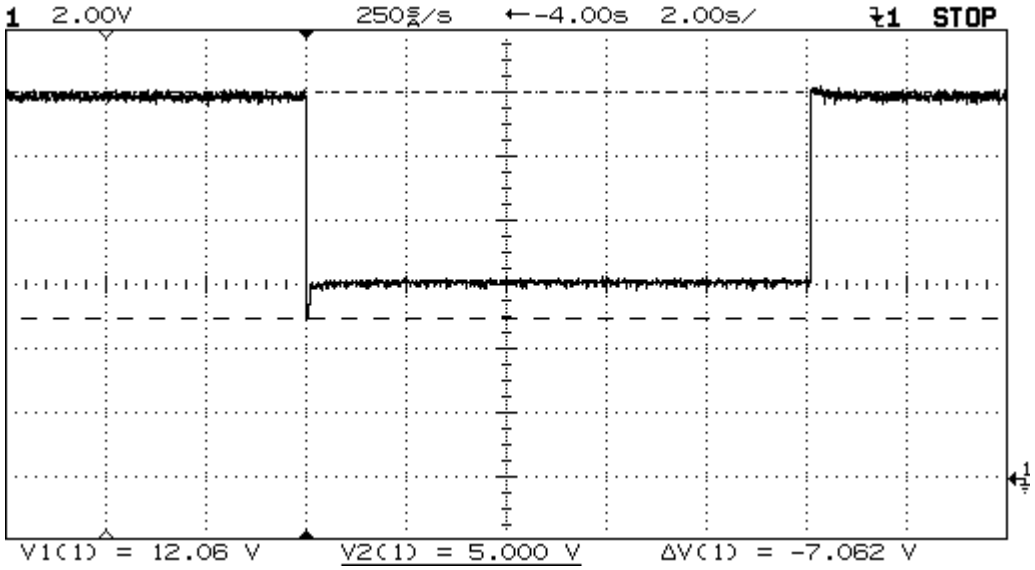
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	12 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 3
Notes:	Tested with 3A constant current load.				

Pulse 4 - EUT Load



Tested by: Doug Dahl (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 12 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 3

Notes: Tested with 8 Ohm resistor load.

TEST VOLTAGE (VOLTS)	TEST LEVEL (VOLTS) US	TRANSIENT TIME (mSec)	TEST LEVEL (VOLTS) UA	TRANSIENT TIME SEC	SOURCE Impedance (Ohms)	REPETITIONS	CRITERIA Met (Class)	COMPLIES YES	COMPLIES NO	REMARKS
										Lead Description - DC Input Power
12	-7	40	-6	10	0.02	3	B	✓		EUT powered off and auto recovered.

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

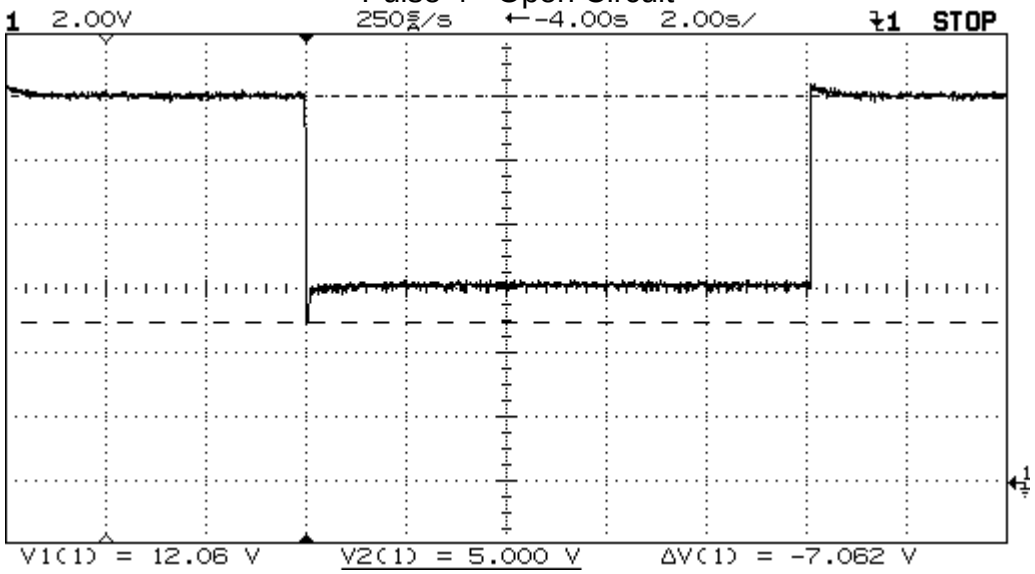
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	12 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 3
Notes:	Tested with 8 Ohm resistor load.				

Pulse 4 - Open Circuit



Tested by: Doug Dahl (Printed) (Signature)

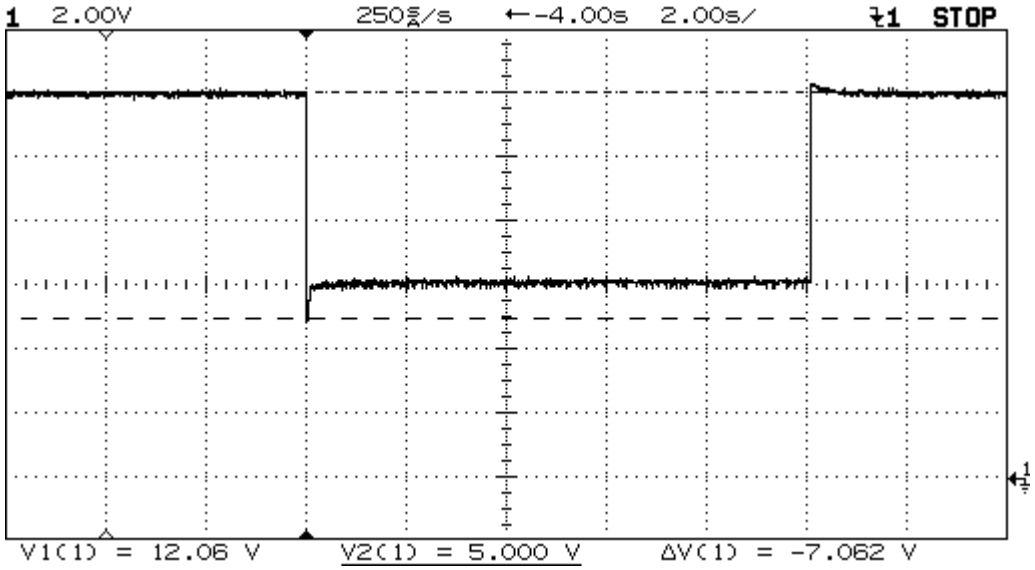
Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-2-DLD.doc

TRANSIENT IMMUNITY - PULSE 4

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	12 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 3
Notes:	Tested with 8 Ohm resistor load.				

Pulse 4 - EUT Load



Tested by: Doug Dahl (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp4-2-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 3

Notes: Tested with 3A constant current load.

TEST VOLTAGE (VOLTS)	TEST LEVEL (VOLTS)	SOURCE Impedance (Ohms)	REP RATE (Sec)	TRANSIENT DURATION (mSec)	REPETITIONS	COMPLIES YES	COMPLIES NO	REMARKS
								Lead Description - DC Input Power
13.5	89	1	45	400	3	✓		

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

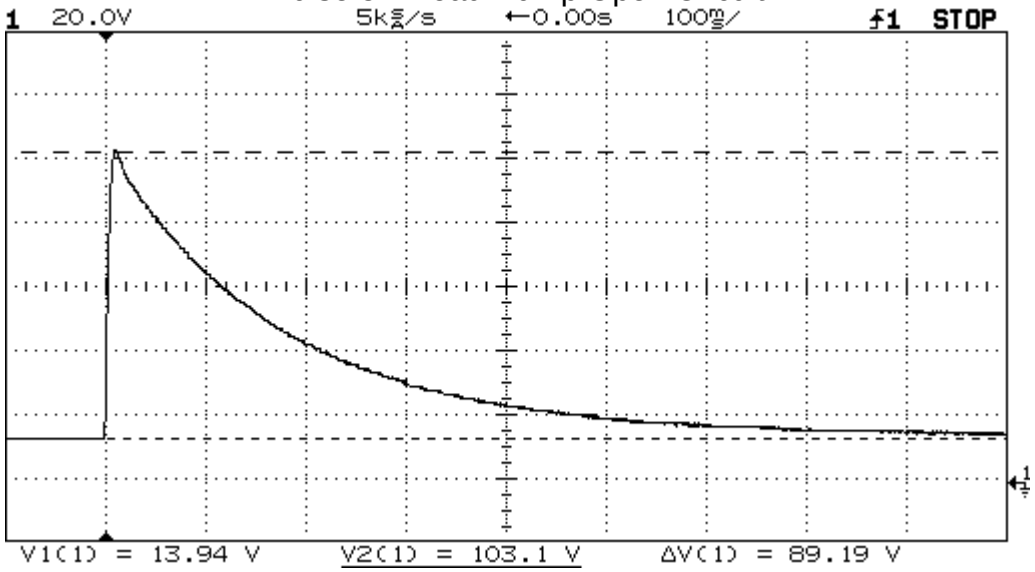
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 3
Notes:	Tested with 3A constant current load.				

Pulse 5 – Load Dump Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

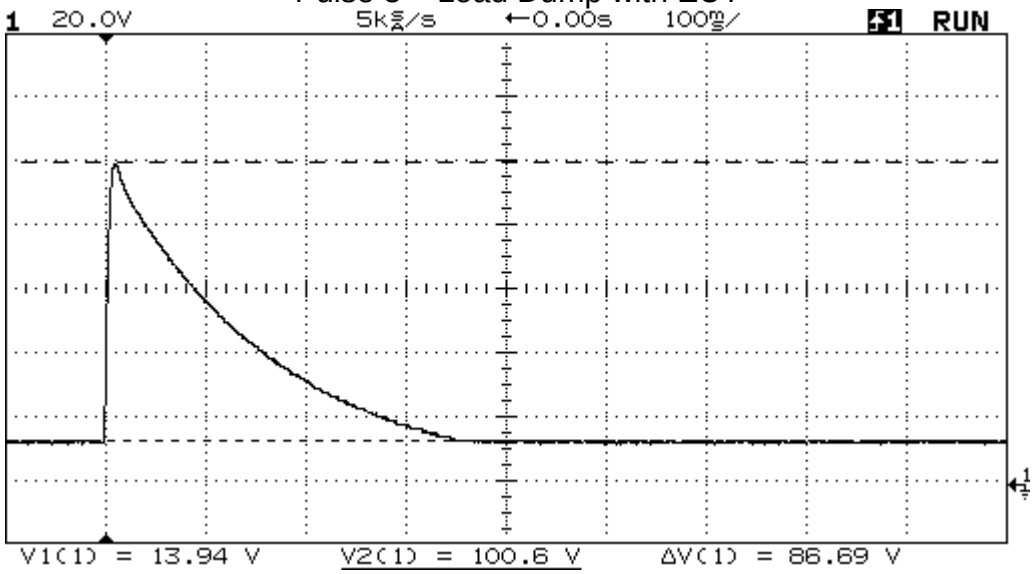
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 3
Notes:	Tested with 3A constant current load.				

Pulse 5 – Load Dump with EUT



Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #: NC1302595 Test Area: 4

EUT Model #: DC2062A Date: 2 April, 2013

EUT Serial #: None EUT Power: 13.5 VDC Temperature: 22.9 °C

Test Method: ISO 7637-2 / Customer test plan Air Pressure: 98.2 kPa

Customer: Linear Technology Relative Humidity: 28.4 %

EUT Description: Demoboard Page: 1 of 3

Notes: Tested with 8 Ohm resistor load.

TEST VOLTAGE (VOLTS)	TEST LEVEL (VOLTS)	SOURCE Impedance (Ohms)	REP RATE (Sec)	TRANSIENT DURATION (mSec)	REPETITIONS	COMPLIES YES	COMPLIES NO	REMARKS
								Lead Description - DC Input Power
13.5	89	1	45	400	3	✓		

Tested by: Doug Dahl
Printed

Signature

Reviewed by: David T Schaefer
Printed

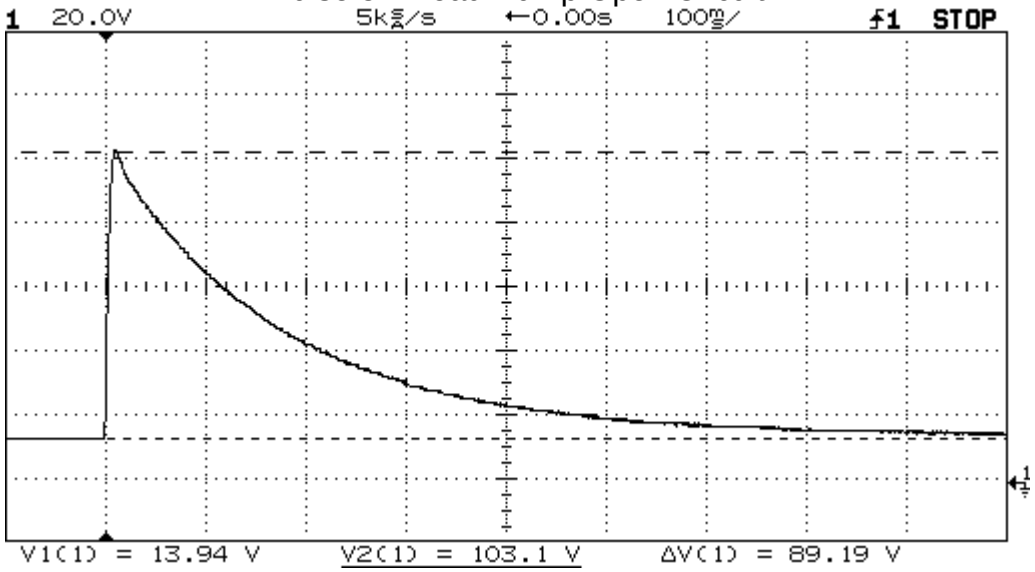
Signature

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-2-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	2 of 3
Notes:	Tested with 8 Ohm resistor load.				

Pulse 5 – Load Dump Open Circuit



Tested by: Doug Dahl (Printed) _____ (Signature)

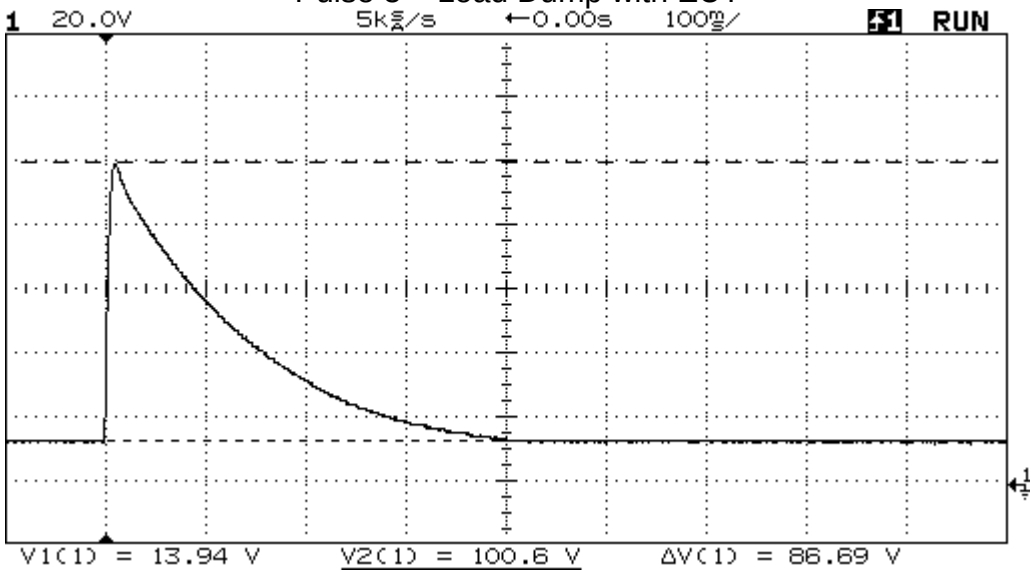
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-2-DLD.doc

TRANSIENT IMMUNITY – PULSE 5a

Test Report #:	NC1302595	Test Area:	4		
EUT Model #:	DC2062A	Date:	2 April, 2013		
EUT Serial #:	None	EUT Power:	13.5 VDC	Temperature:	22.9 °C
Test Method:	ISO 7637-2 / Customer test plan			Air Pressure:	98.2 kPa
Customer:	Linear Technology			Relative Humidity:	28.4 %
EUT Description:	Demoboard			Page:	3 of 3
Notes:	Tested with 8 Ohm resistor load.				

Pulse 5 – Load Dump with EUT

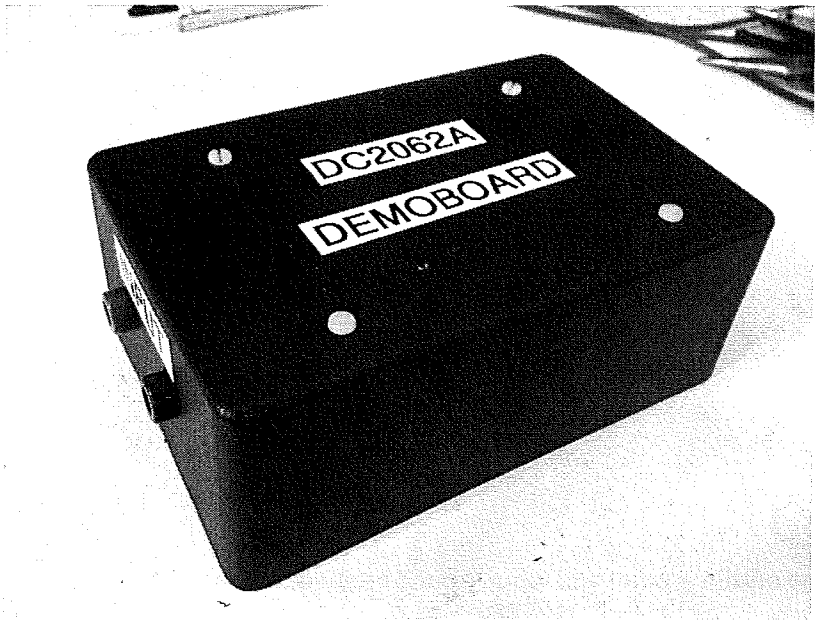


Tested by: Doug Dahl (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\25xx\2595\Rpt_Docs\IM\2595TIp5a-2-DLD.doc

Instruction Manual For Linear Technology's DC2062A Demoboard Box



What is it?

The demo board black box contains a DC2062A demonstration board. This demonstration board has a surge stopper circuit which is based upon the LT4363. The LT4363 Surge Stopper IC suppresses automotive transients and provides current limiting to protect loads such as automotive control modules, entertainment systems, GPS receivers etc.

What does it do?

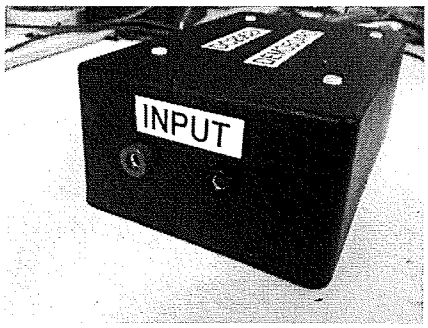
The DC2062A demo board is specifically designed to demonstrate the LTC4363's ability to suppress electrical transients found in 12V automotive systems. The DC2062A adheres to ISO-7637-2, for 12V systems. It blocks or suppresses the various transient pulses found in ISO-7637-2. If a severe fault occurs that could damage the DC2062A, the LT4363 controller will quickly shutoff a pass MOSFET. To reset, briefly disconnect the 12V power supply and the load. This process will be discussed in detail later on.

The DC2062A allows inputs of 5-24V to pass through to the load. Inputs of 24-100V are temporarily regulated to 24V. If the over voltage condition persists for too long, the DC2062A shuts off. Negative inputs are blocked by the DC2062A so that the output never sees any negative voltage. Short duration

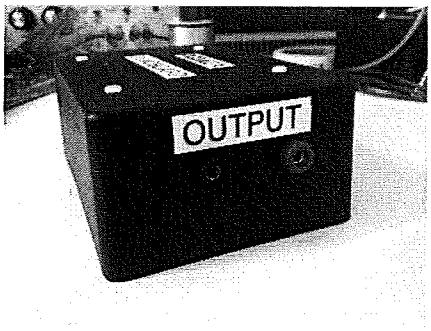
transient spikes are generally filtered by the source impedance and the output capacitor and appear in attenuated form (if at all) at the output.

Interfacing with the DC2062A Black Box:

The ports for input and output are conveniently labeled. Make sure that no power is on when the DC2062A is hooked up with the external test jig. The red banana jack is for positive voltage while the black banana is for ground.

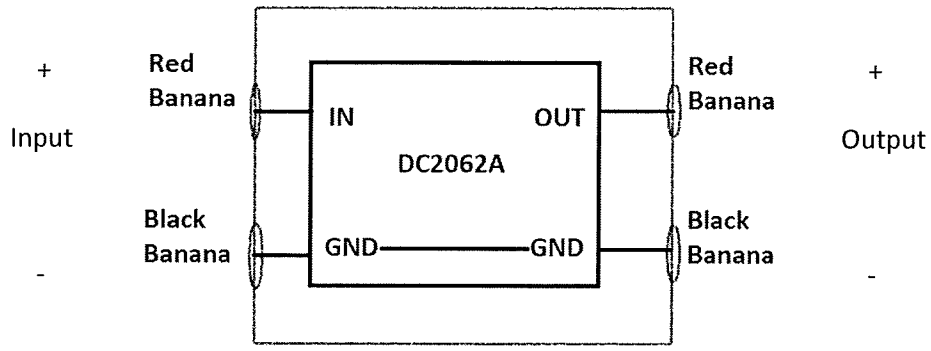


Input Port



Output Port

Please note that the output ground and input ground are tied together internally



Block Diagram of Box

Detailed instructions of required equipment and how to test the demoboard are as follows:

Equipment Required

1) 1x DC2062A Demoboard (supplied by LTC)
2) 4x Banana cables
3) 1x Surge Generator/Power Supply
4) 1x Scope
5) 1x Current Probe
6) 1x Constant Current Load set to 3A (max)

Note: The constant current load should be enabled only after the output has risen above 5V. If the load lacks this feature place a 5.1V zener in series with the load.

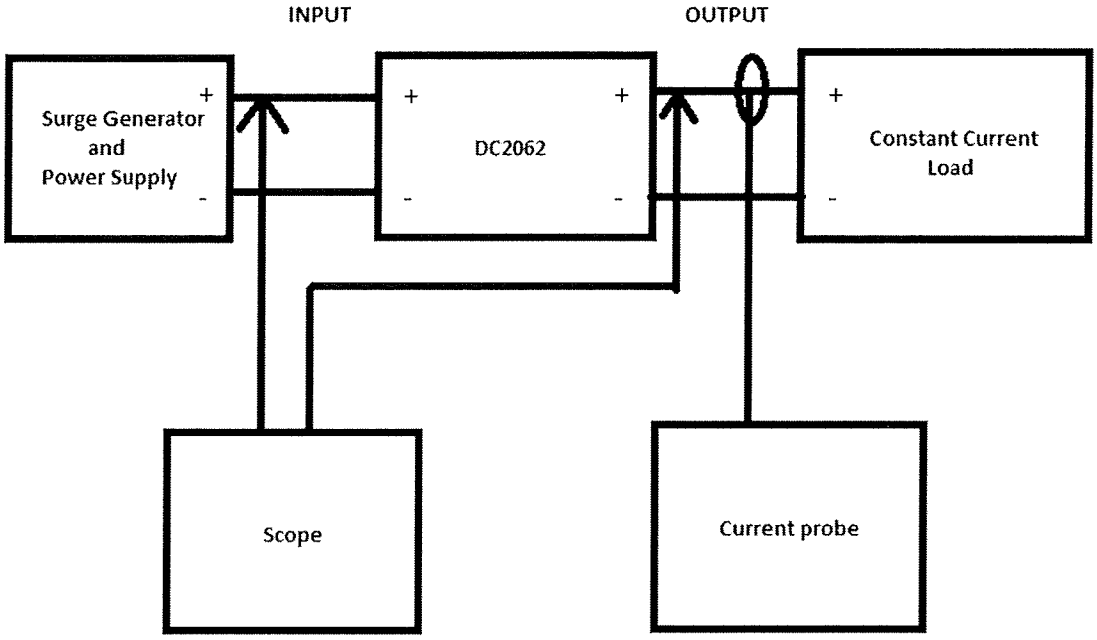
DC2027A Performance Summary

A table with the DC2062A performance summary is shown below:

INPUT		OUTPUT	
Surge Ride Through	ISO-7637-2 Pulse 5A	Output Regulation	23.5V - 25V
DC Survival	-30V to +50V	Maximum Load Current	3A
DC Operating	5V to 23.5V	Current Limit	3.8A
UV	4V		

Hookup:

Connect the Box as shown below making sure all power in the system is off.



Block Diagram of Setup

The 12V power supply line and surge generator is connected to the input of the DC2026A and the output is loaded by 3A constant current load. A scope probe is placed at the input and the output to monitor input and output voltage levels. A current probe is also connected to the output to monitor current being supplied to the load. The purpose of the current probe is for verification that 3A are flowing continuously during transients.

DC2062 has foldback current limit and will not start a 3A Load. Therefore the constant current load must have undervoltage lockout (5-10V recommended). If it does not have this feature, add a 5.1V Zener diode in series with its positive input.

IMPORTANT: If the ISO7637-2 operating levels are exceeded the circuit may latch off. Briefly interrupt the 12V input to reset, using the procedure outlined below. ALWAYS follow these steps for the part to turn back on again.

1) Turn off the constant current load.
2) Turn 12V power off
3) Turn 12V power on after 1s
4) Turn constant current load on.

Successful power up will result in 3A current being drawn from the input.

Testing ISO-7637 Pulses:

Before testing any ISO-7637 pulses, ensure that the DC2062A is hooked up correctly and that 12V power is being supplied to the 3A load.

Test Pulse 1:

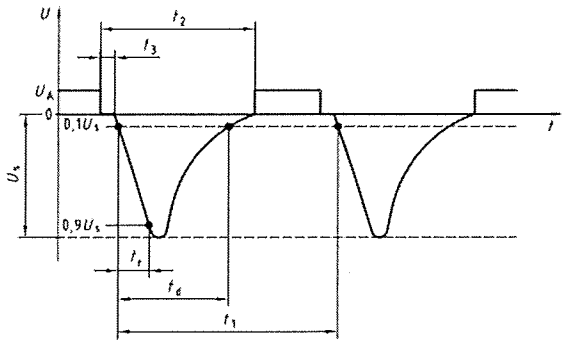


Figure 5 — Test pulse 1

Table 3 — Parameters for test pulse 1

Parameter	12 V system	24 V system
U_s	−75 V to −100 V	−150 V to −200 V
R_i	10 Ω	50 Ω
t_2	2 ms	1 ms
t_r	$1^{0}_{-0,5}$ µs	$3^{0}_{-1,5}$ µs
t_1 [a]	0,5 s to 5 s	
t_2	200 ms	
t_3 [b]	< 100 µs	

[a] t_1 shall be chosen such that the DUT is correctly initialized before the application of the next pulse

[b] t_3 is the smallest possible time necessary between the disconnection of the supply source and the application of the pulse

Expected Output:

The DC2062A protects the load by shutting off the pass transistor. This prevents the output from going negative. The output voltage will drop to 0V, then recover when power is restored.

Note: The output voltage will follow the input voltage when it is positive but stay at 0V for negative input.

Test Pulse 2a:

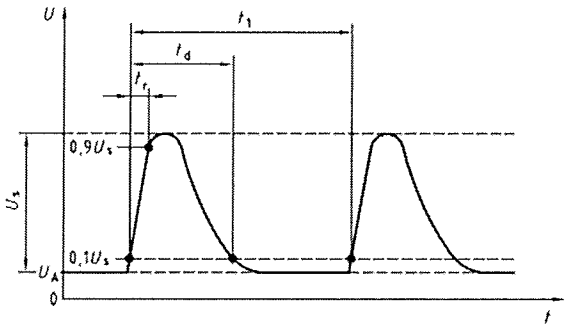


Figure 6 — Test pulse 2a

Table 4 — Parameters for test pulse 2a

Parameter	12 V system	24 V system
U_s	− 37 V to − 50 V	
R_i	2 Ω	
t_d	0,05 ms	
t_r	$\left(1\ ^{0}_{-0,5}\right)$ µs	
t_1 [a]	0,2 s to 5 s	

[a] The repetition time t_1 can be short, depending on the switching. The use of a short repetition time reduces the test time.

Expected Output:

The DC2062A protects the load by clamping the output to 24V. The output will not rise above this level. The transients will be unable to disturb the load.

Test Pulse 2b:

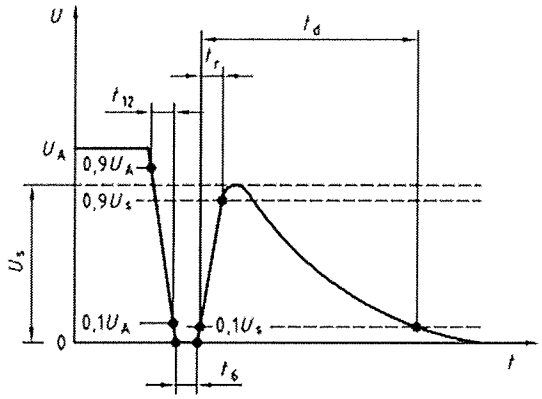


Figure 7 — Test pulse 2b

Table 5 — Parameters for test pulse 2b

Parameter	12 V system	24 V system
U_s	10 V	[illegible]
R_i	0 Ω to 0,05 Ω	
t_d	0,2 s to 2 s	
t_{12}	1 ms ± 0,5 ms	
t_r	1 ms ± 0,5 ms	
t_6	1 ms ± 0,5 ms	

Expected Output:

Once the input falls to 0V the DC2062A turns off. When the input rises to 5V the circuit turns on and follows the input up.

Test Pulse 3a:

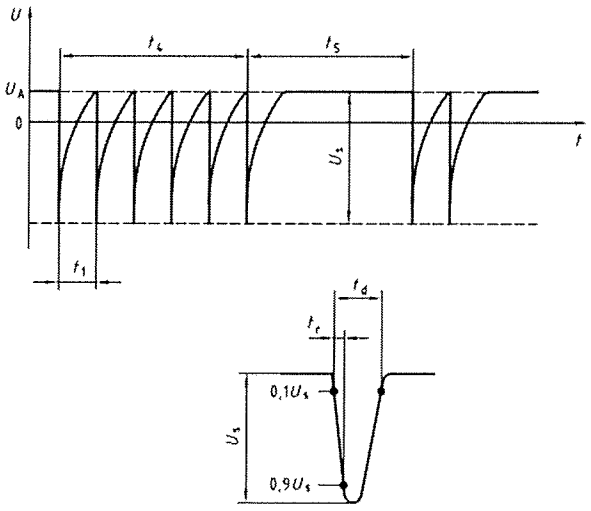


Figure 8 — Test pulse 3a

Table 6 — Parameters for test pulse 3a

Parameter	12 V system	24 V system
U_s	– 112 V to – 150 V	~~– 150 V to – 200 V~~
R_i	50 Ω	
t_d	$(0,1^{+0,1}_{0})$ µs	
t_r	5 ns ± 1,5 ns	
t_1	100 µs	
t_4	10 ms	
t_5	90 ms	

Expected Output:

The spikes do not affect the output at all. The output capacitor and the generator resistance (50 Ohms) filter them out.

Test Pulse 3b:

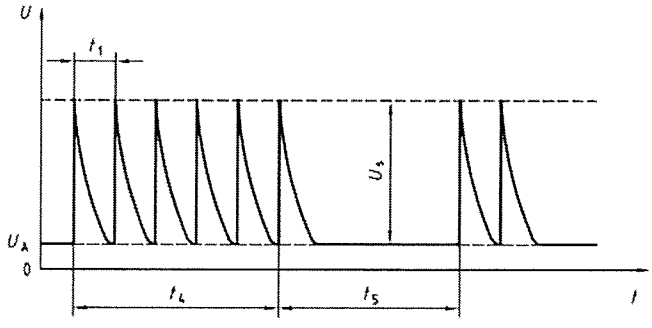


Figure 9 — Test pulse 3b

Table 7 — Parameters for test pulse 3b

Parameter	12 V system	24 V system
U_s	+ 75 V to + 100 V	~~+ 75 V to + 200 V~~
R_i	50 Ω	
t_d	$(0,1^{+0,1}_{0})$ µs	
t_r	5 ns ± 1,5 ns	
t_1	100 µs	
t_4	10 ms	
t_5	90 ms	

Expected Output:

The spikes do not affect the system at all. The output capacitor and the generator resistance (50 Ohms) filter them out.

Test Pulse 4:

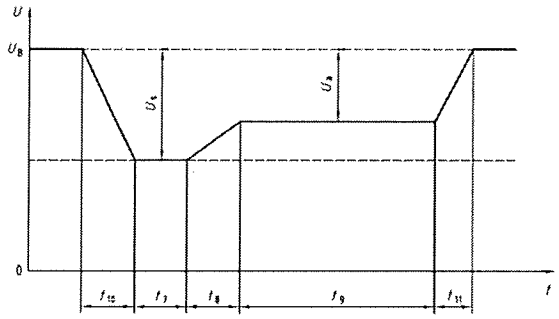


Figure 10 — Test pulse 4

Table 8 — Parameters for test pulse 4

Parameter	12 V system	24 V system
U_s	– 6 V to – 7 V	– 12 V to – 15 V
U_a	– 2,5 V to – 6 V with $\lvert U_a \rvert \leqslant \lvert U_s \rvert$	– 5 V to – 12 V with $\lvert U_a \rvert \leqslant \lvert U_s \rvert$
R_i	0 Ω to 0,02 Ω	
t_7	15 ms to 40 ms [a]	50 ms to 100 ms [a]
t_8	⩽ 50 ms	
t_9	0,5 s to 20 s [a]	
t_{10}	5 ms	10 ms
t_{11}	5 ms to 100 ms [b]	10 ms to 100 ms [c]

[a] The value used should be agreed between the vehicle manufacturer and the equipment supplier to suit the proposed application.

[b] t_{11} = 5 ms is typical of the case when engine starts at the end of the cranking period, while t_{11} = 100 ms is typical of the case when the engine does not start.

[c] t_{11} = 10 ms is typical of the case when engine starts at the end of the cranking period, while t_{11} = 100 ms is typical of the case when the engine does not start.

Expected Output:

The output follows the input while still supplying the full load current of 3A.

Test Pulse 5:

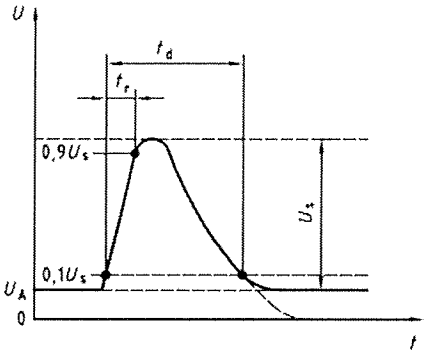


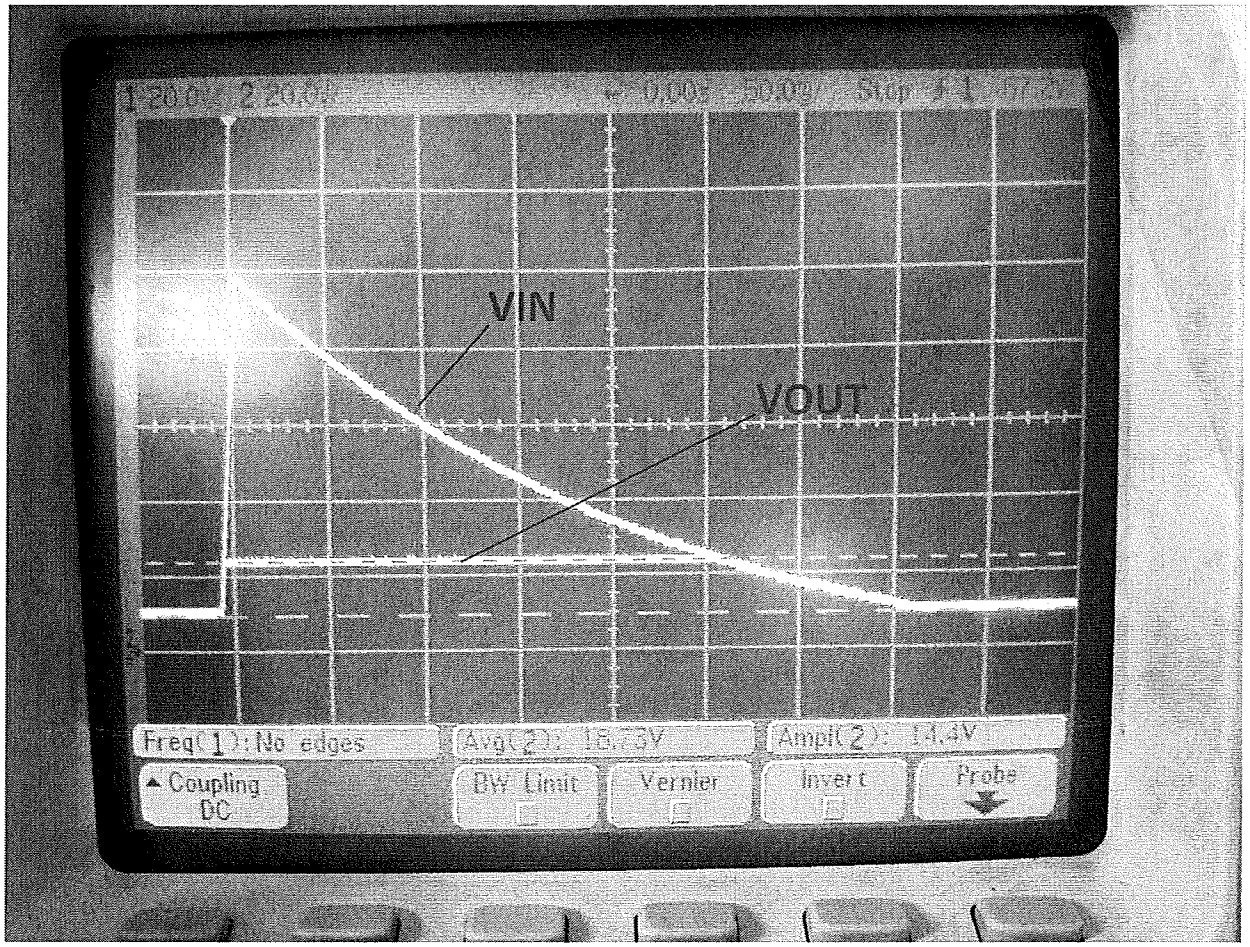
Figure 11 — Test pulse 5a

Table 9 — Parameters for test pulse 5a

Parameter	12 V system	24 V system
U_s	65 V to 87 V	123 V to 174 V
R_i	0,5 Ω to 4 Ω	1 Ω to 4 Ω
t_d	40 ms to 400 ms	100 ms to 350 ms
t_r	$(10\ ^{0}_{-5})$ ms	

Expected Output:

The output will rise with the input to 24V where it is clamped. It will then follow the input back down to 12V on the trailing edge of the surge. Throughout the entire surge it supplies 3A to load.



Typical Results with ISO-7637-2 Load Dump Pulse 5A

Contact:

If there are any questions regarding the operation of the board, please contact:

Hamza Salman Afzal

Applications Engineer

Mixed Signal Products

Linear Technology Corporation

1630 McCarthy Boulevard, Bldg. 5

Milpitas, CA 95035-7417

Office: (408) 432-1900 x3246