



**SUMMARY TEST DATA
ON
SDLVA-218-44-70MV**

Customer: _____	Tested By: <u>E.Benson</u>
SO No: <u>SO13-112-P-PE</u>	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-218-44-70MV</u>	Date: <u>12/19/13</u>
Serial No: <u>PL14418/1351</u>	Drawing No: <u>27619605</u> Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	FREQUENCY RANGE:	2 GHz – 18 GHz	2 GHz – 18 GHz	<i>SB</i>
2	FLATNESS:	± 1.5 dB MAXIMUM	+/- 0.7dB	<i>SB</i>
3	DYNAMIC RANGE:	-40 to +4 dBm MINIMUM	-42 to +5 dBm	<i>SB</i>
4	LOG LINEARITY AT 25°C:	± 0.75 dB MAXIMUM (-40 TO 0 dBm)	+0.44dB -0.39dB	<i>SB</i>
5	LOG SLOPE:	70 ±3 mV/dB MAXIMUM	69.84 mV/dB (See Plot)	<i>SB</i>
6	DC OFFSET AT RF TERMINATED:	± 70 Mv MAXIMUM	10 mV	<i>SB</i>
7	RISE TIME:	25 ns MAXIMUM	22.974 ns	<i>SB</i>
8	RECOVERY TIME:	500 ns MAXIMUM	200.11 ns	<i>SB</i>
9	NOISE AT RF TERMINATED:	150 mV (VP-P MAXIMUM)	110 mV	<i>SB</i>
10	FALL TIME:	300 ns MAXIMUM	69.11 ns	<i>SB</i>
11	TSS:	-42 dBm MAXIMUM	-44 dBm	<i>SB</i>
12	PULSE WIDTH RANGE:	50 ns~CW MINIMUM	50 ns to CW	<i>SB</i>
13	MAX INPUT POWER:	+ 20 dBm	Pass	<i>SB</i>
14	DC Supply:	+15V @ 200 mA Max -15V @ 150 mA Max	+40 mA -40 mA	<i>SB</i>

QA/QC Approval: *Stephen C Beugher* Date: 12/19/13

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Thursday, December 19, 2013
 4:11 PM

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-218-44-70MV
 TESTED BY: EBenson
 TEST DATE: 12/19/2013
 SERIAL NO: PL14418
 TEST TEMP: +25C

Frequency

Frequency	Intercept (mV)	Slope (mV/dB)	-40	-35	-30	-25	-20	-15	-10	-5	0
2 GHz	3066	69.23	274	628	1004	1347	1688	2058	2393	2701	3039
			-23	-15	15	12	7	31	19	-19	-27
			-0.33	-0.22	0.22	0.17	0.10	0.44	0.28	-0.27	-0.39
10 GHz	3047	69.84	231	588	967	1315	1653	2020	2372	2683	3019
			-22	-14	16	14	3	21	24	-14	-28
			-0.31	-0.20	0.22	0.21	0.05	0.30	0.34	-0.21	-0.39
18 GHz	3026	70.86	187	528	918	1273	1601	1965	2305	2683	3019
			-5	-18	18	19	-8	2	-12	11	-7
			-0.06	-0.25	0.25	0.26	-0.11	0.03	-0.18	0.16	-0.10

Flatness +/-dB	0.6	0.7	0.6	0.5	0.6	0.6	0.7	0.6	0.1	0.1	0.1
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