

SERIAL # PL23722 TEST DATA SHEET

DATE 11/08/18

REF.	NOMENCLATURE	VALUE	TOL	UNITS	+25° C
SCOPE	ESS DATA	N/A	N/A	N/A	SEE ATTACHED DATA
4.1	Dimensions	N/A	N/A	N/A	PASS
4.2	Marking	N/A	N/A	N/A	PASS
4.3	DC Power @+/-15VDC	+500	MAX	mA	316
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.36:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.29:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.51/-0.60 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	545.2-55.9 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.012/0.036
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.025
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.507
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	0.5
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	0.5
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-162
4.7	Log Video Output Rise Time	20	MAX	ns	13.2



SIZE  
A

CAGE CODE  
71A34

DWG. NO.  
28033900

REVISION A 1

SCALE

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4.8	Pulse Overshoot @ -10dBm	138.7	MAX	mV	<100
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0.0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	13.01
4.10	Log Video Output Pulse Delay	35	MAX	ns	14
4.11	RF Saturated Output Power	+15	MAX	dBm	14.37

TESTED BY J.Emperador

QA *[Signature]*  
11/9/18



SIZE  
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REVISION A 1

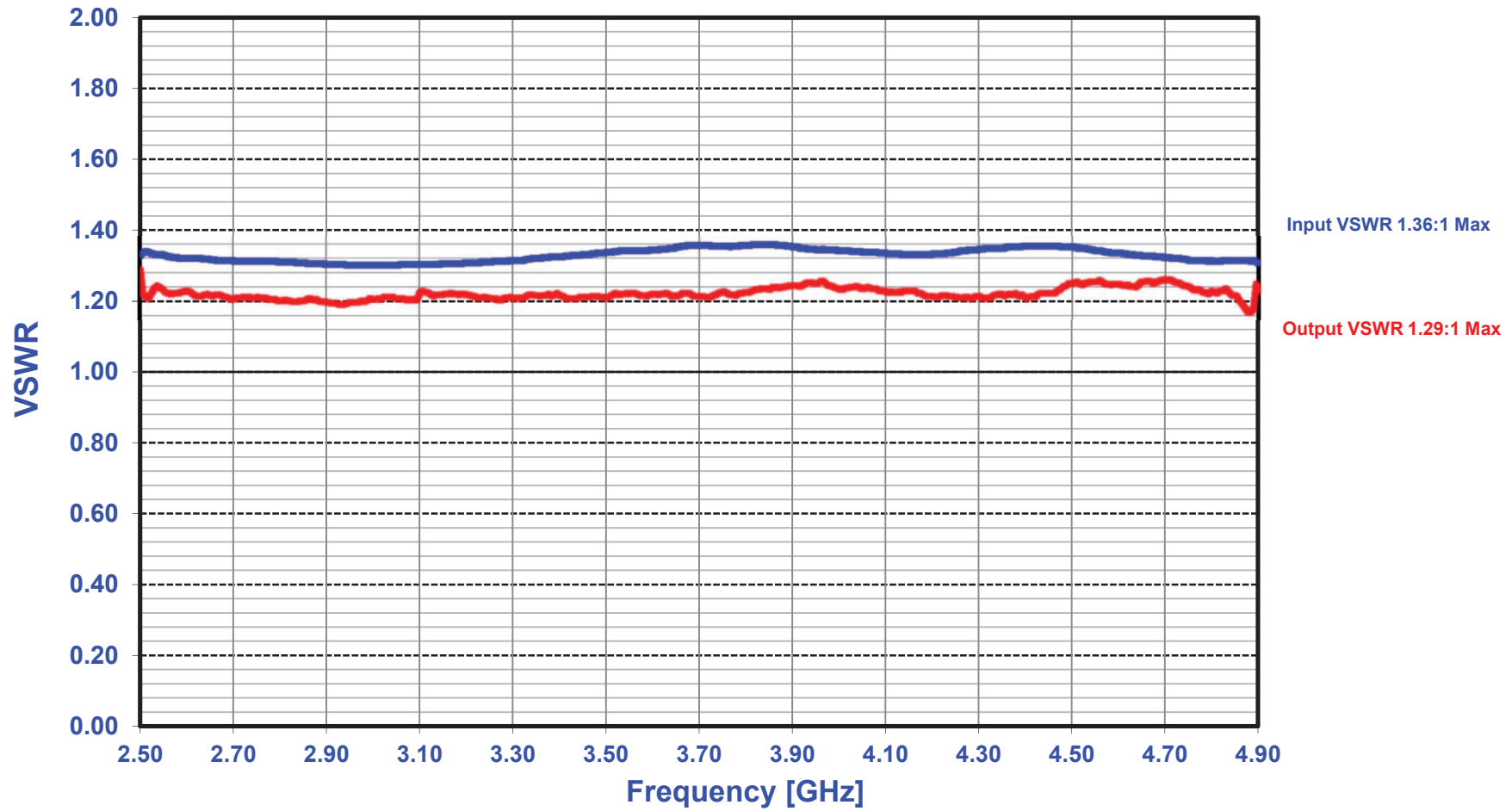
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV  
Serial Number: PL23722  
Date: 11/9/2018

Temperature: +25C

### VSWR GRAPH 1 & 2





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LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-2D5G4D9G-45-55MV  
 TESTED BY: J.Emperador  
 DATE: 11/08/2018  
 SERIAL NO: PL23722  
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3104
	SLOPE (mV/dB)	55.6

2.9 GHz	INTERCEPT (mV)	3087
	SLOPE (mV/dB)	55.6

3.3 GHz	INTERCEPT (mV)	3087
	SLOPE (mV/dB)	55.9

3.7 GHz	INTERCEPT (mV)	3087
	SLOPE (mV/dB)	55.4

4.1 GHz	INTERCEPT (mV)	3080
	SLOPE (mV/dB)	55.3

4.5 GHz	INTERCEPT (mV)	3073
	SLOPE (mV/dB)	55.4

4.9 GHz	INTERCEPT (mV)	3067
	SLOPE (mV/dB)	55.2

Flatness +/-dB

Slope Avg(mv/dB)	55.5
Slope Min(mv/dB)	55.2
Slope Max(mv/dB)	55.9

V Out Min @ -55dBm	0.012
V Out Max @ -55dBm	0.036
V Avg @ -55dBm	0.025
V Avg @ -10dBm	2.507

Max Delta -55 to -45dBm	1.03	dB
Max Delta -45 to -10dBm	1.03	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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20	299	610	914	1178	1440	1748	2004	2244	2520
-27	-26	7	33	19	3	33	12	-26	-28
-0.49	-0.47	0.13	0.60	0.35	0.06	0.60	0.21	-0.47	-0.51

X

16	288	582	889	1161	1415	1725	1992	2235	2506
-14	-20	-4	25	19	-5	27	16	-18	-25
-0.26	-0.37	-0.08	0.45	0.34	-0.09	0.49	0.29	-0.33	-0.46

X

12	276	553	863	1147	1409	1717	1985	2232	2507
0	-16	-18	12	17	-1	28	16	-17	-21
0.00	-0.28	-0.32	0.22	0.30	-0.02	0.49	0.29	-0.30	-0.38

X

36	301	576	881	1166	1435	1729	1989	2238	2510
-4	-16	-18	10	18	10	27	10	-18	-23
-0.07	-0.28	-0.32	0.19	0.33	0.19	0.49	0.19	-0.32	-0.41

X

36	299	572	877	1160	1428	1723	1983	2233	2507
-1	-15	-18	10	16	8	26	10	-17	-19
-0.02	-0.27	-0.33	0.18	0.30	0.14	0.48	0.18	-0.31	-0.35

X

28	292	565	868	1150	1418	1716	1977	2227	2500
-1	-13	-17	9	14	6	27	11	-16	-20
-0.01	-0.24	-0.31	0.16	0.26	0.10	0.48	0.20	-0.28	-0.35

X

28	294	571	870	1149	1416	1715	1974	2222	2496
-4	-14	-13	10	13	5	28	11	-17	-19
-0.07	-0.25	-0.23	0.19	0.24	0.08	0.50	0.19	-0.31	-0.35

X

0.2	0.2	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.2
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RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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Error (mV)
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LOG TRANSFER WITH FREQUENCY  
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Test Temp: +25C

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