

SERIAL # PL23725

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	312
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.35:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.29:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.47/-0.34 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	55.2-55.8 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	-0.015/0.017
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.001
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.495
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	0.6
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	0.6
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-174
4.7	Log Video Output Rise Time	20	MAX	ns	11.8



SIZE
A

CAGE CODE
71A34

DWG. NO.
28033900

REVISION A 1

SCALE

SHEET 16 OF 18

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	12.4
4.10	Log Video Output Pulse Delay	35	MAX	ns	15
4.11	RF Saturated Output Power	+15	MAX	dBm	13.61

TESTED BY J.Emperador

QA *J.Emperador*
11/9/18



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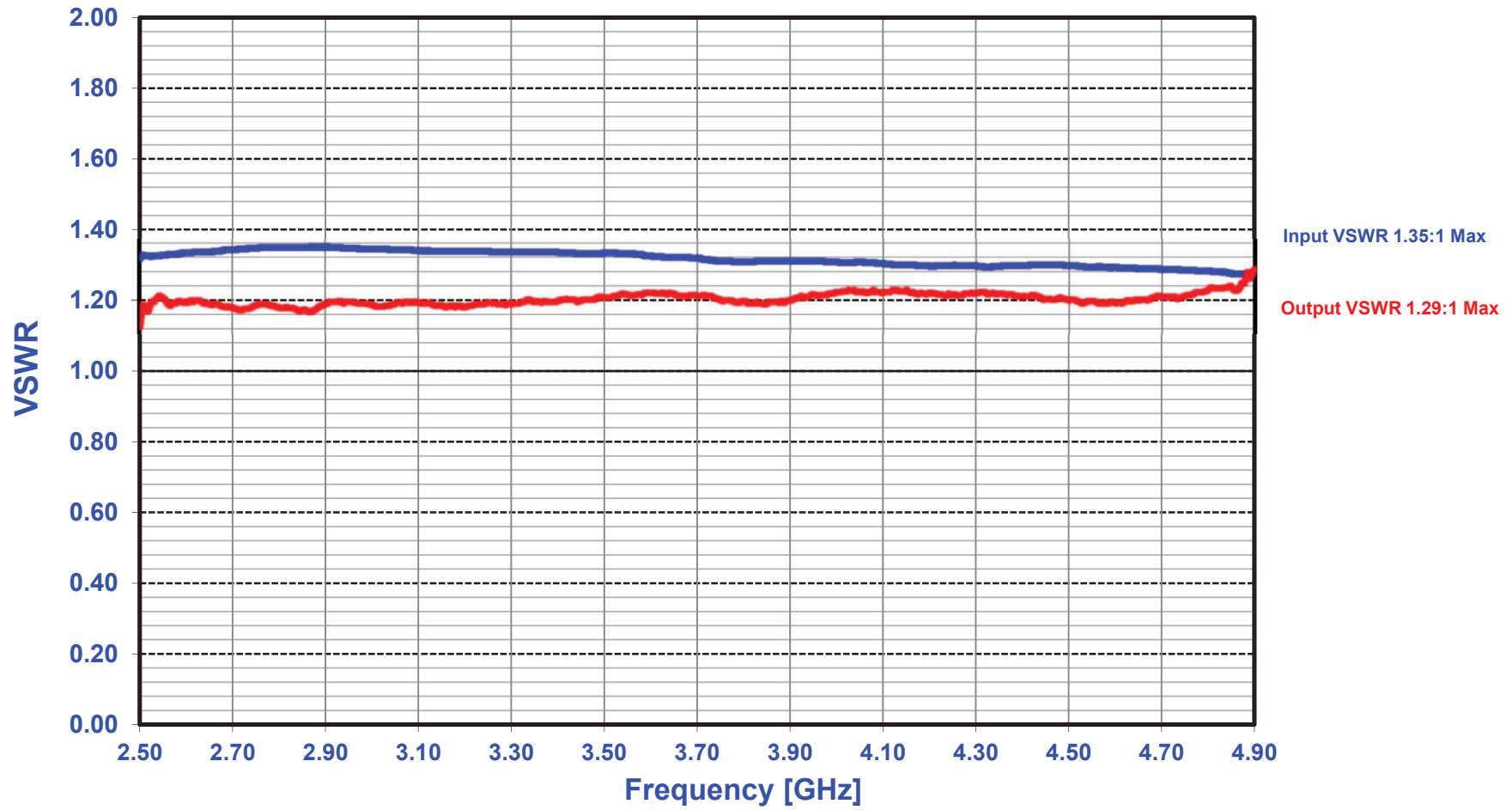
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23725
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: PL23725
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3070
	SLOPE (mV/dB)	55.2

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
17	299	606	889	1139	1415	1693	1957	2244	2512
-19	-13	18	26	0	0	2	-10	1	-6
-0.34	-0.23	0.34	0.47	0.00	0.00	0.04	-0.18	0.03	-0.12

RF Input Power (dBm)
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

2.9 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	55.8

-10	256	546	837	1104	1376	1664	1939	2231	2491
3	-11	0	12	0	-7	2	-2	11	-8
0.05	-0.19	0.01	0.22	0.00	-0.12	0.03	-0.04	0.19	-0.15

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

3.3 GHz	INTERCEPT (mV)	3055
	SLOPE (mV/dB)	55.5

4	270	553	843	1116	1392	1668	1938	2230	2494
2	-9	-4	9	4	2	1	-7	8	-6
0.04	-0.16	-0.07	0.16	0.07	0.04	0.01	-0.12	0.14	-0.11

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

3.7 GHz	INTERCEPT (mV)	3054
	SLOPE (mV/dB)	55.3

15	280	561	846	1117	1392	1666	1938	2234	2500
5	-6	-2	6	0	-1	-4	-9	10	0
0.10	-0.11	-0.04	0.11	0.01	-0.02	-0.07	-0.16	0.19	0.00

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

4.1 GHz	INTERCEPT (mV)	3054
	SLOPE (mV/dB)	55.7

-2	258	537	828	1104	1384	1658	1927	2228	2496
11	-8	-8	4	2	3	-2	-12	11	0
0.19	-0.15	-0.14	0.08	0.03	0.05	-0.03	-0.21	0.19	0.00

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

4.5 GHz	INTERCEPT (mV)	3046
	SLOPE (mV/dB)	55.5

-1	263	549	834	1105	1381	1654	1925	2226	2490
5	-9	0	8	1	0	-5	-11	12	-1
0.09	-0.15	0.00	0.14	0.02	-0.01	-0.09	-0.20	0.22	-0.02

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

4.9 GHz	INTERCEPT (mV)	3041
	SLOPE (mV/dB)	55.7

-15	245	536	821	1089	1361	1643	1917	2220	2485
8	-10	2	9	-2	-8	-5	-10	15	1
0.15	-0.18	0.04	0.16	-0.03	-0.15	-0.09	-0.17	0.26	0.02

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

Flatness +/-dB

0.3	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.2	0.2
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Slope Avg(mv/dB)	55.5
Slope Min(mv/dB)	55.2
Slope Max(mv/dB)	55.8

V Out Min @ -55dBm	-0.015
V Out Max @ -55dBm	0.017
V Avg @ -55dBm	0.001
V Avg @ -10dBm	2.495

Max Delta -55 to -45dBm	1.26	dB
Max Delta -45 to -10dBm	1.26	dB

