

SERIAL # PL23721 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	320
		-200		mA	55
4.4	Input VSWR	2.0:1	MAX	1.45:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.29:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.49/-0.82 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.9-55.9 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	-0.011/0.032
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.018
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.475
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	0.7
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-176
4.7	Log Video Output Rise Time	20	MAX	ns	11.5



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	11.9
4.10	Log Video Output Pulse Delay	35	MAX	ns	15
4.11	RF Saturated Output Power	+15	MAX	dBm	14.16

TESTED BY_J.Emperador_

QA *[Signature]*
11/9/18



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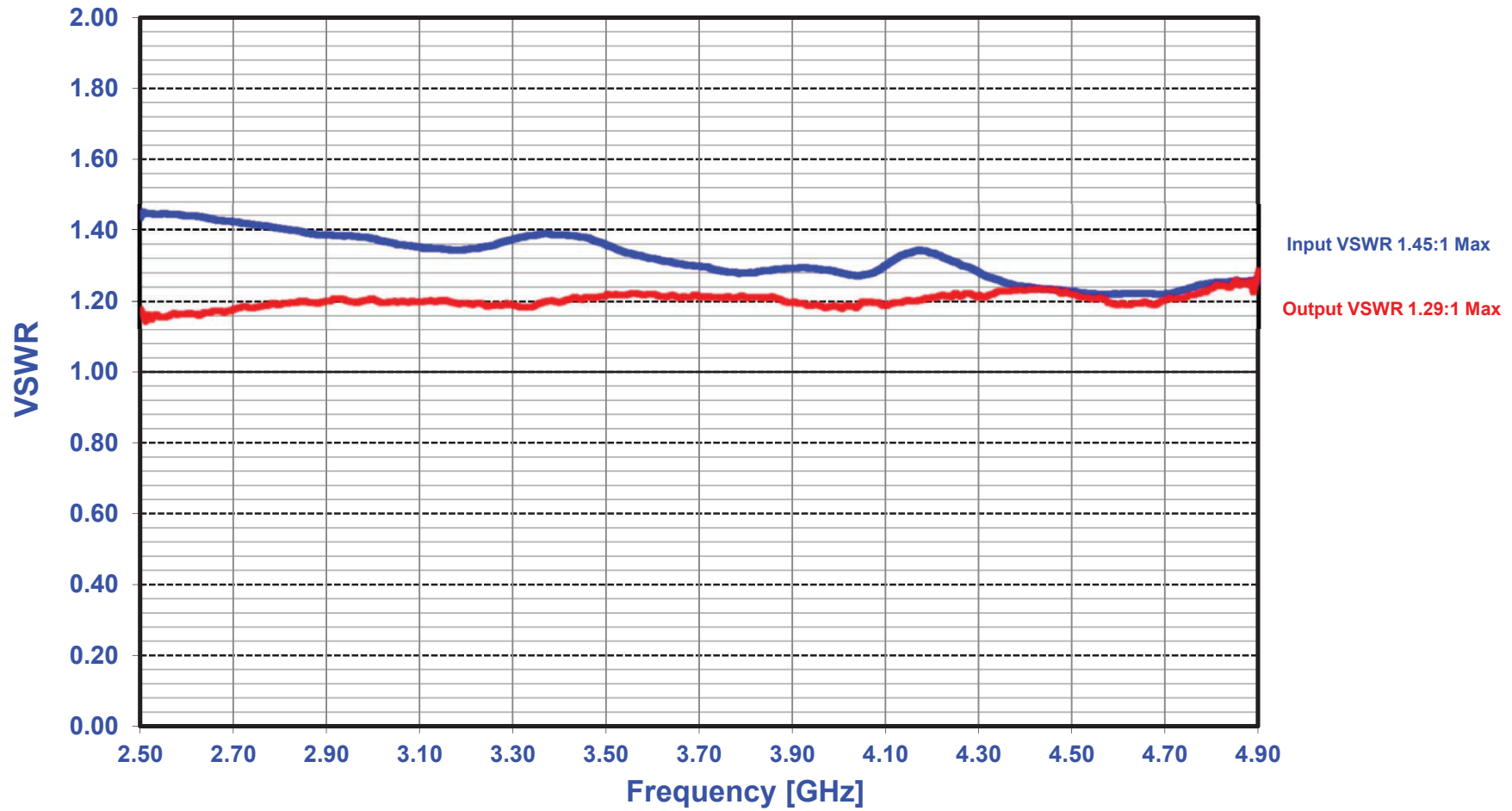
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23721
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: PL23721
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	55.1

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
17	288	584	873	1133	1393	1700	1971	2229	2483
-10	-15	6	19	4	-12	20	15	-2	-24
-0.19	-0.27	0.10	0.35	0.07	-0.22	0.36	0.28	-0.04	-0.43

RF Input Power (dBm)

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

2.9 GHz	INTERCEPT (mV)	3043
	SLOPE (mV/dB)	55.9

-11	245	520	818	1083	1321	1652	1953	2221	2472
18	-5	-9	10	-5	-46	6	27	16	-12
0.33	-0.09	-0.16	0.17	-0.09	-0.82	0.10	0.49	0.29	-0.22

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

3.3 GHz	INTERCEPT (mV)	3051
	SLOPE (mV/dB)	55.3

16	275	546	841	1120	1386	1686	1960	2223	2475
8	-10	-15	3	5	-5	18	16	2	-22
0.14	-0.18	-0.28	0.06	0.10	-0.09	0.33	0.28	0.04	-0.41

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

3.7 GHz	INTERCEPT (mV)	3051
	SLOPE (mV/dB)	55.1

32	288	555	848	1126	1394	1689	1962	2229	2480
11	-8	-17	1	3	-4	16	13	5	-20
0.20	-0.15	-0.30	0.02	0.06	-0.07	0.28	0.24	0.09	-0.36

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

4.1 GHz	INTERCEPT (mV)	3046
	SLOPE (mV/dB)	55.3

21	275	536	830	1108	1379	1680	1953	2223	2477
18	-5	-21	-3	-2	-8	17	13	7	-16
0.32	-0.09	-0.37	-0.06	-0.03	-0.14	0.30	0.24	0.12	-0.29

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

4.5 GHz	INTERCEPT (mV)	3044
	SLOPE (mV/dB)	54.9

32	290	558	847	1126	1398	1687	1956	2224	2474
8	-8	-15	0	4	2	16	10	4	-21
0.15	-0.15	-0.27	-0.01	0.07	0.03	0.29	0.19	0.07	-0.38

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

4.9 GHz	INTERCEPT (mV)	3032
	SLOPE (mV/dB)	55

20	278	546	834	1107	1374	1673	1945	2214	2467
11	-6	-13	1	-1	-9	15	12	6	-16
0.20	-0.10	-0.23	0.01	-0.02	-0.17	0.27	0.22	0.11	-0.29

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

Flatness +/-dB

0.4	0.4	0.6	0.5	0.5	0.7	0.4	0.2	0.1	0.1
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Slope Avg(mv/dB)	55.2
Slope Min(mv/dB)	54.9
Slope Max(mv/dB)	55.9

V Out Min @ -55dBm	-0.011
V Out Max @ -55dBm	0.032
V Avg @ -55dBm	0.018
V Avg @ -10dBm	2.475

Max Delta -55 to -45dBm	1.16	dB
Max Delta -45 to -10dBm	1.39	dB

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-45-55MV
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 Test Temp: +25C

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