

SERIAL # PL23726 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	322
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.48:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.32:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.45/-0.50 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.4 -55.3 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.002/0.055
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.036
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.498
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	-137
4.7	Log Video Output Rise Time	20	MAX	ns	11.3



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	12.2
4.10	Log Video Output Pulse Delay	35	MAX	ns	14
4.11	RF Saturated Output Power	+15	MAX	dBm	13.71

TESTED BY_J.Emperador_

QA *J.Emperador*
11/9/18



SIZE
A

CAGE CODE
71A34

DWG. NO.
28033900

REVISION A 1

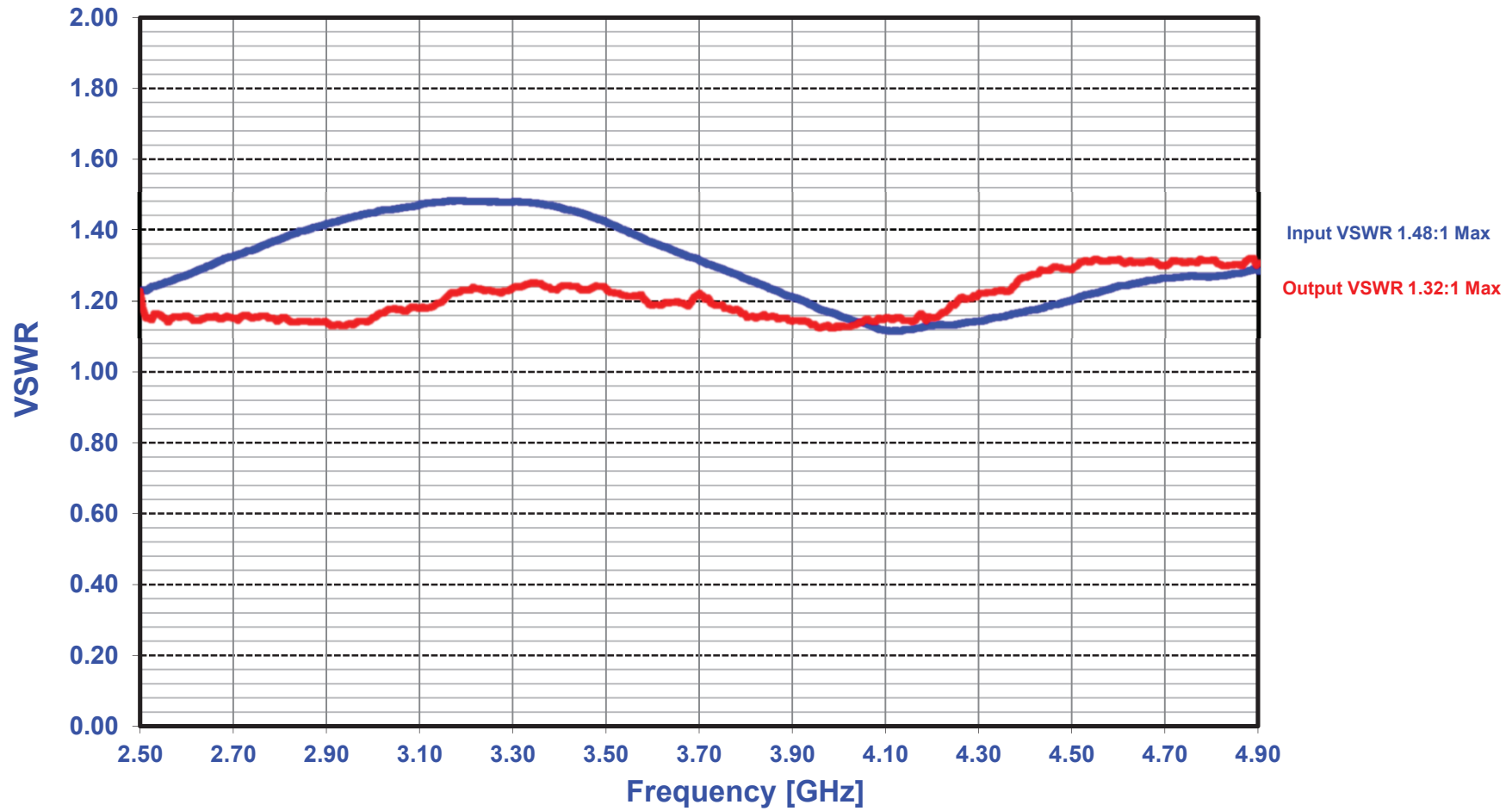
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23726
Date: 11/9/2018

Temperature: +25C

VSWR GRAPH 1 & 2





PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway, Suite 1
 El Dorado Hills, CA 95762
 Phone: 916-542-1401 Fax: 301-662-1731
 Email: sales@pmi-rf.com | www.pmi-

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-45-55MV
 TESTED BY: J.Emperador
 DATE: 11/08/2018
 SERIAL NO: PL23726
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3047
	SLOPE (mV/dB)	54.4

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
55	317	607	895	1138	1387	1684	1954	2235	2512
1	-9	9	25	-4	-27	-2	-5	4	9
0.02	-0.17	0.16	0.45	-0.08	-0.50	-0.05	-0.08	0.08	0.17

RF Input Power (dBm)

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

2.9 GHz	INTERCEPT (mV)	3045
	SLOPE (mV/dB)	55.2

X

28	278	551	849	1116	1366	1667	1945	2227	2495
17	-9	-12	11	2	-24	1	3	9	1
0.31	-0.16	-0.21	0.19	0.03	-0.44	0.02	0.06	0.17	0.02

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

3.3 GHz	INTERCEPT (mV)	3043
	SLOPE (mV/dB)	54.9

X

39	287	553	851	1125	1386	1673	1942	2223	2495
18	-9	-18	6	5	-9	4	-2	4	1
0.32	-0.16	-0.32	0.10	0.09	-0.16	0.06	-0.04	0.07	0.03

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

3.7 GHz	INTERCEPT (mV)	3048
	SLOPE (mV/dB)	54.9

X

45	293	557	854	1128	1397	1680	1945	2228	2500
18	-8	-19	3	3	-3	5	-4	4	1
0.34	-0.15	-0.34	0.06	0.05	-0.06	0.10	-0.08	0.07	0.02

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

4.1 GHz	INTERCEPT (mV)	3052
	SLOPE (mV/dB)	55.2

X

36	281	545	843	1123	1397	1678	1942	2226	2500
21	-10	-22	0	4	2	7	-5	3	0
0.39	-0.18	-0.40	0.00	0.07	0.03	0.12	-0.10	0.05	0.01

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

4.5 GHz	INTERCEPT (mV)	3049
	SLOPE (mV/dB)	55.3

X

29	275	544	840	1117	1392	1674	1941	2224	2495
20	-11	-18	1	2	1	6	-3	4	-2
0.35	-0.20	-0.33	0.03	0.04	0.01	0.12	-0.05	0.07	-0.03

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

4.9 GHz	INTERCEPT (mV)	3047
	SLOPE (mV/dB)	55.3

X

20	263	540	837	1117	1395	1673	1935	2217	2488
17	-17	-17	4	7	8	9	-5	0	-6
0.30	-0.31	-0.30	0.06	0.12	0.15	0.17	-0.09	0.00	-0.10

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

Flatness +/-dB

X

0.3	0.5	0.6	0.5	0.2	0.3	0.2	0.2	0.2	0.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Slope Avg(mv/dB)	55.0
Slope Min(mv/dB)	54.4
Slope Max(mv/dB)	55.3

V Out Min @ -55dBm	0.02
V Out Max @ -55dBm	0.055
V Avg @ -55dBm	0.036
V Avg @ -10dBm	2.498

Max Delta -55 to -45dBm	1.22	dB
Max Delta -45 to -10dBm	1.22	dB

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-45-55MV
SERIAL NO: PL23726
Test Temp: +25C

GRAPH # 3

