

SERIAL #_PL22480_____

TEST DATA SHEET

DATE 4-19-18

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 / FAIL
4.2	Marking	N/A	N/A	N/A	PASS / FAIL
4.3	DC Power @+/-15VDC	+500	MAX	mA	410
		-200		mA	50
4.4	Input VSWR	2.0:1	MAX	1.45:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.31:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.79 / -0.71dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.4 / 55.5mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.038 / 0.066
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.047
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.481
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	1.0
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	1.0
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-118
4.7	Log Video Output Rise Time	20	MAX	ns	11.3



SIZE

A

CAGE CODE

71A34

SCALE

DWG. NO.
28033900

REVISION A 1

SHEET 16 OF 18

4.8	Pulse Overshoot @ -10dBm	138.7	MAX	mV	120
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	13.2
4.10	Log Video Output Pulse Delay	35	MAX	ns	16.5
4.11	RF Saturated Output Power	+15	MAX	dBm	14.1

TESTED BY JM

QA *J. K. [Signature]*



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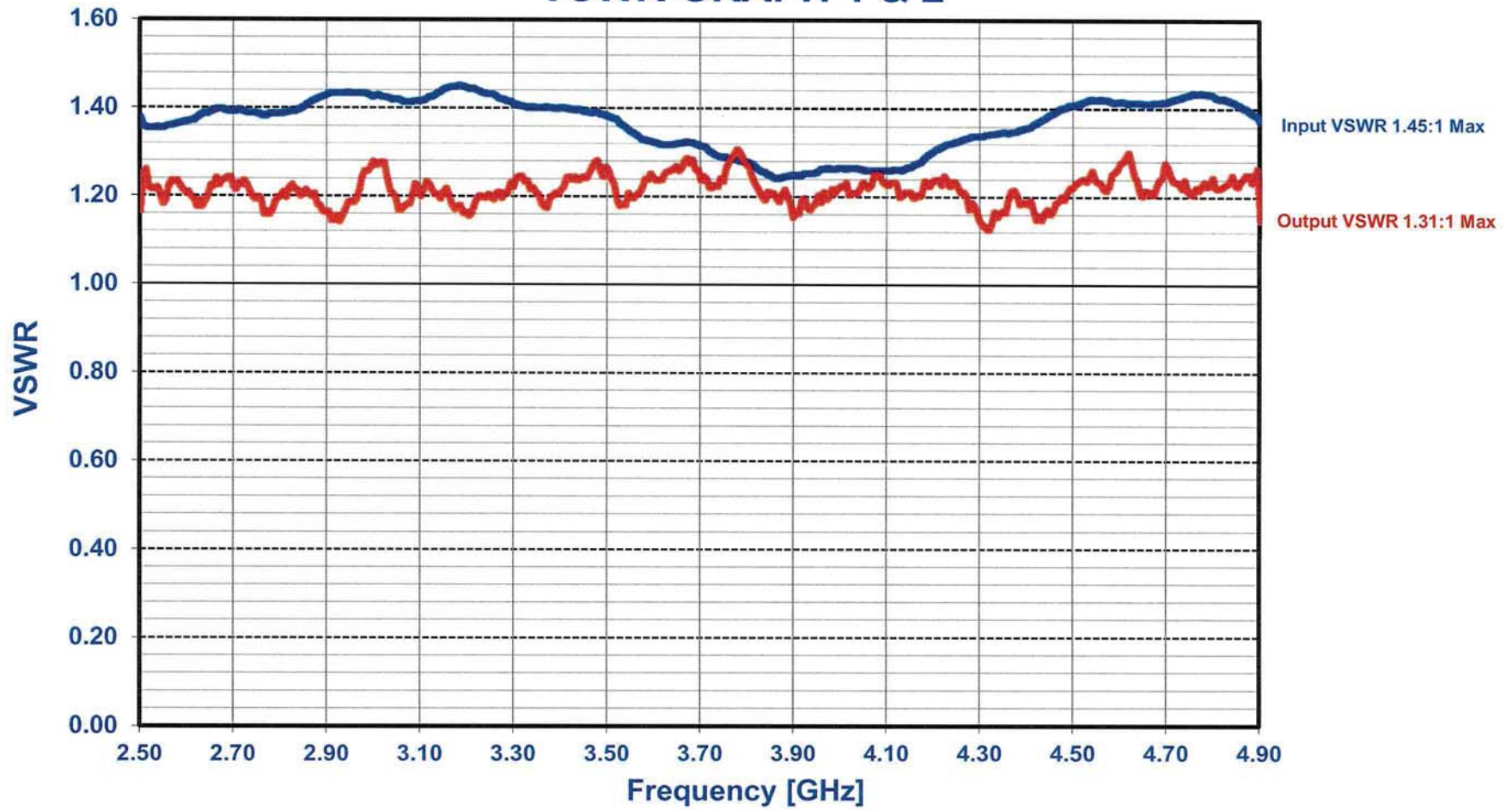
REVISION A 1

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL22480
Date: 4/19/2018

Temperature: +25C

VSWR GRAPH 1 & 2



LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-60-50MV
 TESTED BY: JOHNM
 DATE: 4-3-18
 SERIAL NO: #5
 Test Temp: +25C

GRAPH # 3



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-

vos= -118mv

Frequency

2.5 GHz	INTERCEPT (mV)	3021
	SLOPE (mV/dB)	54.4

2.9 GHz	INTERCEPT (mV)	3022
	SLOPE (mV/dB)	54.6

3.3 GHz	INTERCEPT (mV)	3037
	SLOPE (mV/dB)	55.2

3.7 GHz	INTERCEPT (mV)	3060
	SLOPE (mV/dB)	55.3

4.1 GHz	INTERCEPT (mV)	3052
	SLOPE (mV/dB)	54.9

4.5 GHz	INTERCEPT (mV)	3049
	SLOPE (mV/dB)	55.5

4.9 GHz	INTERCEPT (mV)	3030
	SLOPE (mV/dB)	55.2

Flatness +/-dB

Slope Avg(mv/dB)	55.0
Slope Min(mv/dB)	54.4
Slope Max(mv/dB)	55.5

V Out Min @ -55dBm	0.038
V Out Max @ -55dBm	0.066
V Avg @ -55dBm	0.047
V Avg @ -10dBm	2.481

Max Delta -55 to -45dBm	1.00	dB
Max Delta -45 to -10dBm	1.00	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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48	289	563	862	1113	1368	1677	1946	2206	2471
17	-14	-12	15	-5	-22	15	12	1	-6
0.31	-0.26	-0.22	0.28	-0.10	-0.41	0.28	0.23	0.01	-0.11

x

45	283	544	846	1106	1362	1665	1947	2211	2469
26	-9	-21	8	-5	-22	8	17	8	-7
0.47	-0.17	-0.39	0.14	-0.10	-0.41	0.14	0.31	0.14	-0.13

x

40	267	517	822	1093	1364	1668	1950	2218	2477
41	-8	-34	-5	-11	-16	12	18	10	-7
0.74	-0.15	-0.62	-0.10	-0.19	-0.28	0.22	0.33	0.18	-0.13

x

57	291	541	837	1112	1390	1686	1969	2240	2504
39	-4	-30	-11	-12	-11	8	15	9	-3
0.70	-0.07	-0.55	-0.20	-0.22	-0.20	0.15	0.27	0.17	-0.06

x

66	296	548	846	1127	1417	1698	1962	2234	2488
33	-12	-34	-11	-4	12	18	8	5	-15
0.60	-0.21	-0.62	-0.19	-0.07	0.21	0.33	0.14	0.10	-0.28

x

38	265	512	816	1097	1388	1676	1951	2224	2484
42	-9	-39	-13	-9	4	15	12	8	-10
0.75	-0.16	-0.71	-0.23	-0.17	0.07	0.26	0.22	0.14	-0.18

x

38	262	508	809	1085	1376	1664	1939	2209	2471
44	-8	-38	-13	-13	2	14	13	7	-7
0.79	-0.15	-0.69	-0.24	-0.24	0.03	0.25	0.23	0.13	-0.13

x

0.3	0.3	0.5	0.5	0.4	0.5	0.3	0.3	0.3	0.3
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RF Input Power (dBm)

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

Measured Value (mV)
Error (mV)
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LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-60-50MV
SERIAL NO: #5
Test Temp: +25C

GRAPH # 3

