

SERIAL #_PL22483_____

TEST DATA SHEET

DATE__4-19-18_____

REF.	NOMENCLATURE	VALUE	TOL	UNITS	+25 ⁰ 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	+400
		-200		mA	-50
4.4	Input VSWR	2.0:1	MAX	1.43:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.6:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.52 / -0.46dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.5 - 55.1mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075		0.039V TO +0.052V
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.045
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.501
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	-150
4.7	Log Video Output Rise Time	20	MAX	ns	12.5



SIZE
A

CAGE CODE
71A34

DWG. NO.
28033900

REVISION A 1

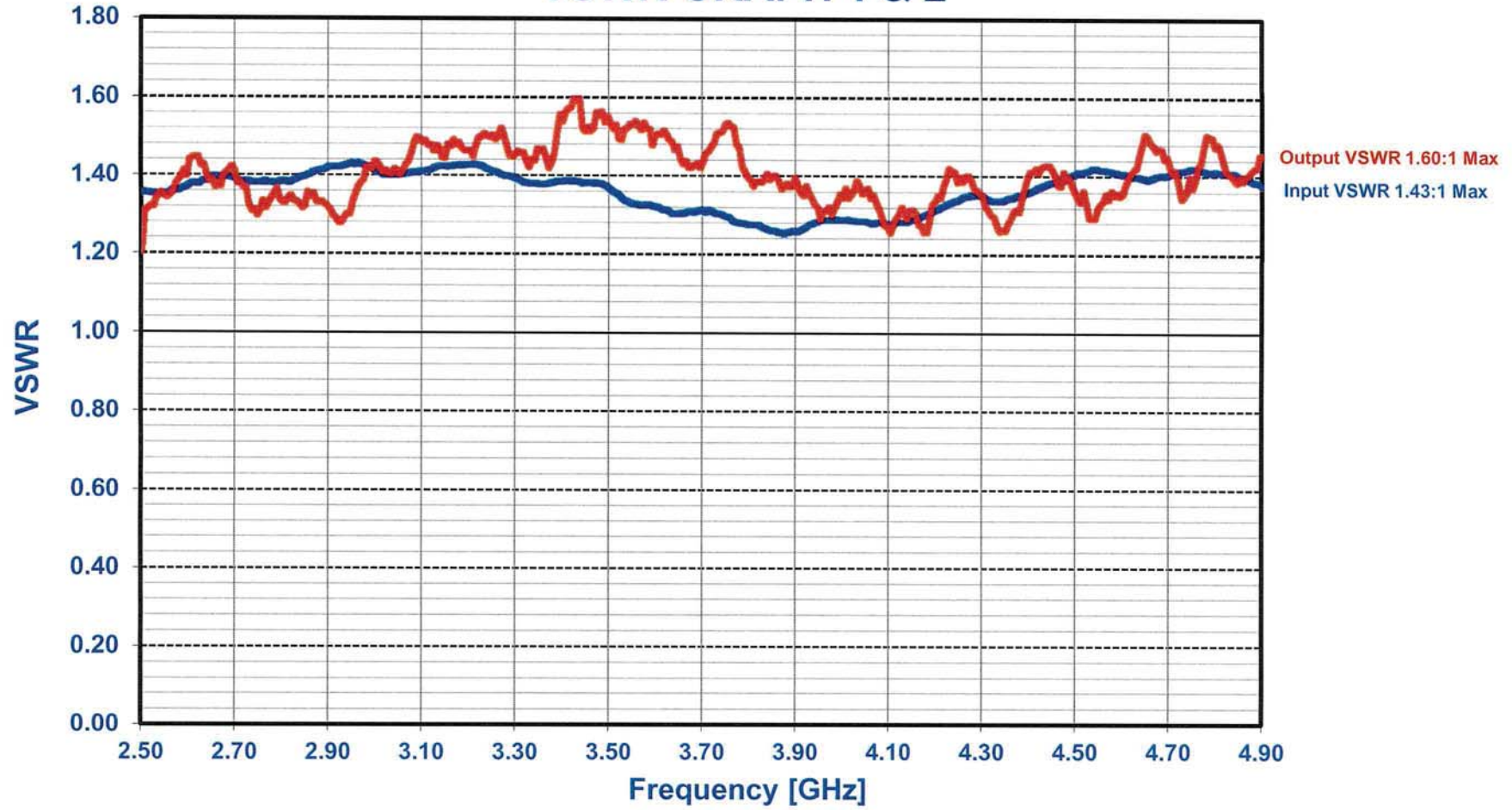
SCALE

SHEET 16 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL22483
Date: 4/20/2018

Temperature: +25C

VSWR GRAPH 1 & 2



LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-60-50MV
 TESTED BY: JOHNM
 DATE: 4-19-18
 SERIAL NO: PL22483
 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= -150MV

Frequency

2.5 GHz	INTERCEPT (mV)	3061
	SLOPE (mV/dB)	54.5

2.9 GHz	INTERCEPT (mV)	3057
	SLOPE (mV/dB)	54.6

3.3 GHz	INTERCEPT (mV)	3064
	SLOPE (mV/dB)	54.7

3.7 GHz	INTERCEPT (mV)	3085
	SLOPE (mV/dB)	55.1

4.1 GHz	INTERCEPT (mV)	3073
	SLOPE (mV/dB)	55.1

4.5 GHz	INTERCEPT (mV)	3074
	SLOPE (mV/dB)	55.1

4.9 GHz	INTERCEPT (mV)	3049
	SLOPE (mV/dB)	54.9

Flatness +/-dB

Slope Avg(mv/dB)	54.9
Slope Min(mv/dB)	54.5
Slope Max(mv/dB)	55.1

V Out Min @ -55dBm	0.039
V Out Max @ -55dBm	0.052
V Avg @ -55dBm	0.045
V Avg @ -10dBm	2.501

Max Delta -55 to -45dBm	1.06	dB
Max Delta -45 to -10dBm	1.06	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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41	319	639	907	1151	1437	1711	1972	2242	2497
-25	-20	28	24	-4	9	11	0	-3	-20
-0.46	-0.36	0.52	0.44	-0.08	0.17	0.20	-0.01	-0.05	-0.37

x									
39	310	616	889	1139	1423	1697	1970	2243	2491
-13	-16	17	17	-6	5	6	5	5	-20
-0.24	-0.28	0.32	0.31	-0.11	0.09	0.10	0.10	0.09	-0.37

x									
51	312	611	884	1142	1438	1705	1973	2247	2497
-4	-17	9	8	-7	15	9	3	4	-20
-0.08	-0.31	0.16	0.15	-0.13	0.28	0.16	0.06	0.07	-0.36

x									
52	317	613	884	1149	1444	1710	1985	2263	2521
-2	-12	8	4	-7	12	3	2	5	-13
-0.03	-0.22	0.15	0.07	-0.13	0.22	0.05	0.04	0.08	-0.24

x									
51	308	600	870	1135	1436	1703	1976	2257	2506
5	-13	4	-1	-12	14	6	4	9	-17
0.10	-0.23	0.07	-0.02	-0.21	0.26	0.11	0.07	0.17	-0.31

x									
45	305	599	871	1138	1434	1698	1976	2256	2507
2	-13	5	2	-7	13	2	4	8	-16
0.04	-0.24	0.09	0.03	-0.13	0.24	0.03	0.07	0.15	-0.29

x									
39	293	581	855	1120	1418	1680	1953	2234	2488
7	-13	1	0	-9	15	2	1	8	-12
0.13	-0.24	0.01	0.01	-0.16	0.27	0.04	0.02	0.14	-0.23

x									
0.1	0.2	0.5	0.5	0.3	0.2	0.3	0.3	0.3	0.3

RF Input Power (dBm)

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

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Error (mV)
LINEARITY ERROR (dB)

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SERIAL NO: PL22483
Test Temp: +25C

GRAPH # 3

