

SERIAL #\_PL22484\_\_\_\_\_

**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	1.42:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.32:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	-0.68 / +0.63dB	Graph 3
4.5	Log slope	55.5	+/-5 %	55.2 - 56.1mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.002 – 0.039
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.027
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.514
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	1.6
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	1.4
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-172
4.7	Log Video Output Rise Time	20	MAX	ns	19.9



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	0.0
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	30
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	13
4.10	Log Video Output Pulse Delay	35	MAX	ns	16
4.11	RF Saturated Output Power	+15	MAX	dBm	14.2

TESTED BY \_\_\_\_\_ JM \_\_\_\_\_

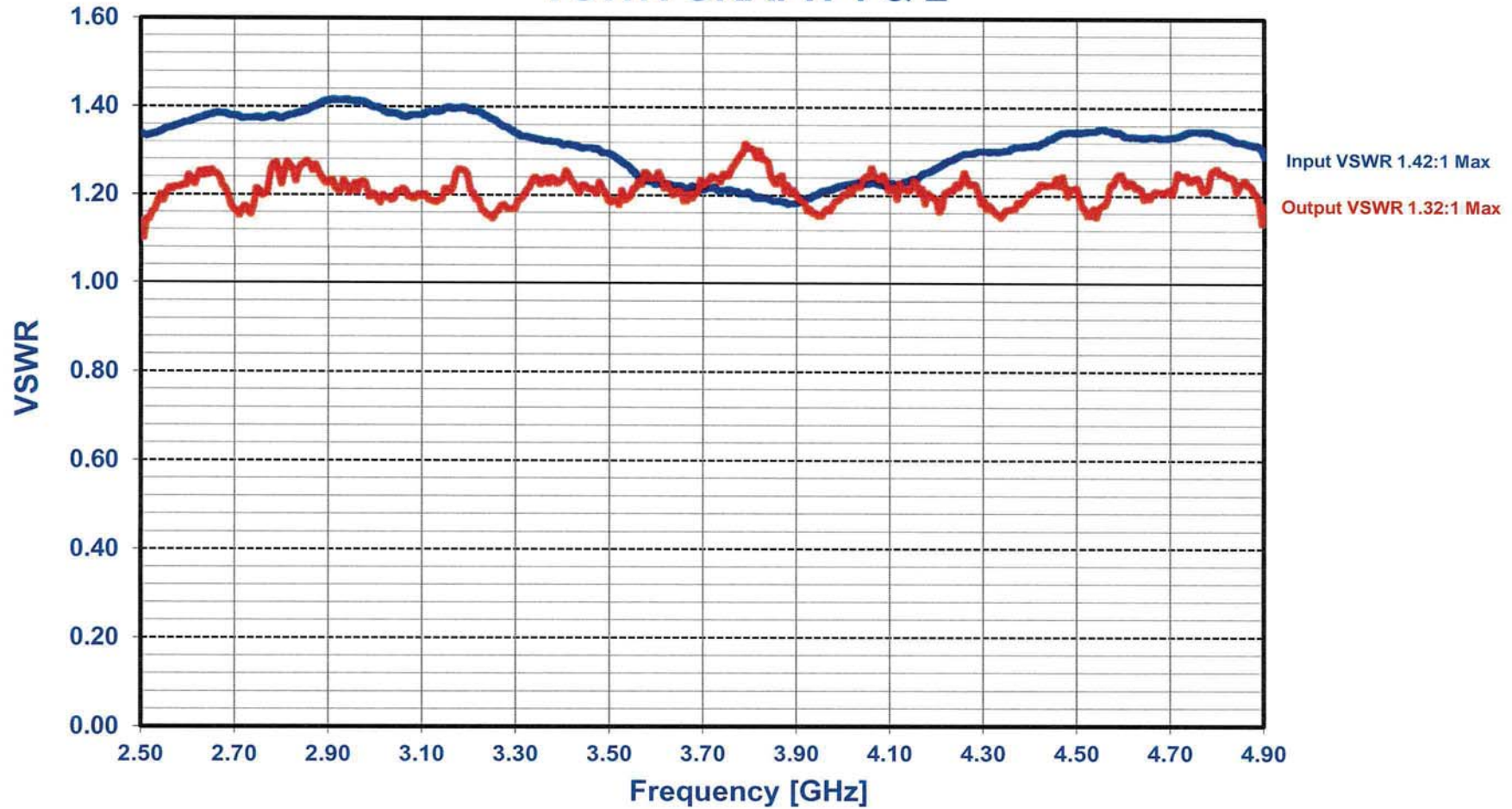
QA 

	SIZE A	CAGE CODE 71A34	DWG. NO. 28033900	REVISION A 1
	SCALE			SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV  
Serial Number: PL22484  
Date: 4/19/2018

Temperature: +25C

### VSWR GRAPH 1 & 2



LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-2D5G4D9G-60-50MV  
 TESTED BY: JOHNM  
 DATE: 4-19-18  
 SERIAL NO: 22484  
 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= -172MV

Frequency

2.5 GHz	INTERCEPT (mV)	3105
	SLOPE (mV/dB)	55.2

2.9 GHz	INTERCEPT (mV)	3112
	SLOPE (mV/dB)	56.3

3.3 GHz	INTERCEPT (mV)	3112
	SLOPE (mV/dB)	56

3.7 GHz	INTERCEPT (mV)	3124
	SLOPE (mV/dB)	56

4.1 GHz	INTERCEPT (mV)	3113
	SLOPE (mV/dB)	56.1

4.5 GHz	INTERCEPT (mV)	3109
	SLOPE (mV/dB)	56

4.9 GHz	INTERCEPT (mV)	3091
	SLOPE (mV/dB)	56

Flatness +/-dB

Slope Avg(mv/dB)	55.9
Slope Min(mv/dB)	55.2
Slope Max(mv/dB)	56.3

V Out Min @ -55dBm	0.002
V Out Max @ -55dBm	0.039
V Avg @ -55dBm	0.027
V Avg @ -10dBm	2.514

Max Delta -55 to -45dBm	1.57	dB
Max Delta -45 to -10dBm	1.57	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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32	320	647	932	1178	1469	1744	2002	2276	2513
-38	-26	25	35	5	20	19	1	-1	-40
-0.68	-0.47	0.46	0.63	0.08	0.36	0.34	0.02	-0.02	-0.72

2	274	581	879	1144	1431	1717	1997	2277	2509
-12	-21	4	20	4	9	13	12	10	-39
-0.21	-0.38	0.07	0.36	0.07	0.16	0.24	0.21	0.18	-0.70

25	290	589	885	1156	1456	1729	1999	2281	2512
-7	-22	-3	13	4	24	17	7	9	-40
-0.13	-0.40	-0.06	0.23	0.07	0.42	0.30	0.12	0.16	-0.72

39	307	601	890	1162	1458	1730	2010	2298	2531
-3	-15	-1	8	-1	15	7	7	15	-32
-0.05	-0.27	-0.02	0.14	-0.01	0.27	0.13	0.13	0.27	-0.58

33	292	579	869	1146	1452	1723	1998	2288	2516
6	-16	-9	0	-3	22	13	7	17	-36
0.10	-0.28	-0.17	0.00	-0.06	0.39	0.23	0.13	0.30	-0.64

32	293	578	870	1149	1449	1718	1995	2285	2514
4	-15	-10	2	1	21	10	7	16	-35
0.07	-0.27	-0.18	0.03	0.01	0.37	0.17	0.12	0.29	-0.62

23	278	559	851	1126	1430	1703	1977	2266	2503
11	-14	-13	-1	-6	18	12	6	15	-28
0.20	-0.25	-0.23	-0.01	-0.10	0.33	0.21	0.10	0.26	-0.50

0.3	0.4	0.8	0.7	0.5	0.3	0.4	0.3	0.3	0.3
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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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