

SERIAL # PL23724 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	310
		-200		mA	55
4.4	Input VSWR	2.0:1	MAX	1.37:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.31:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.53/-0.60 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.8-55.9 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	-0.004/0.039
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.017
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	0.7
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	-147
4.7	Log Video Output Rise Time	20	MAX	ns	11.98



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	12.0
4.10	Log Video Output Pulse Delay	35	MAX	ns	14
4.11	RF Saturated Output Power	+15	MAX	dBm	13.66

TESTED BY_J.Emperador_

QA *[Signature]*
11/9/18



SIZE
A

CAGE CODE
71A34

DWG. NO.
28033900

REVISION A 1

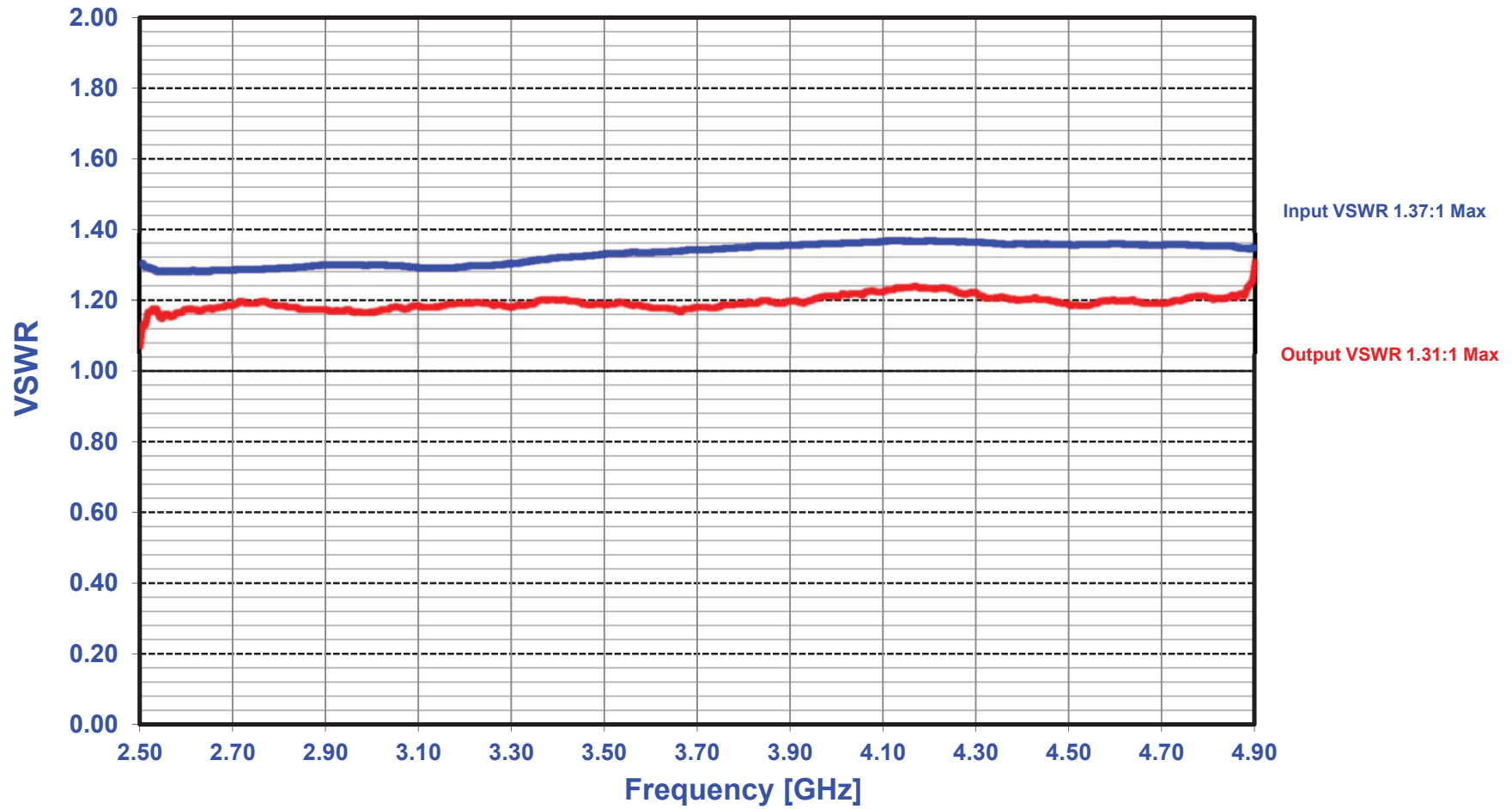
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23724
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: PL23724
 Test Temp: +25C

GRAPH # 3

Frequency

			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	RF Input Power (dBm)
2.5 GHz	INTERCEPT (mV)	3061	39	310	598	896	1152	1393	1708	1987	2239	2490	Measured Value (mV)
	SLOPE (mV/dB)	54.8	-10	-13	1	26	8	-25	16	21	-1	-23	Error (mV)
			-0.18	-0.23	0.03	0.47	0.14	-0.46	0.29	0.39	-0.01	-0.43	LINEARITY ERROR (dB)
			X										
2.9 GHz	INTERCEPT (mV)	3059	5	260	530	838	1114	1352	1677	1973	2232	2478	Measured Value (mV)
	SLOPE (mV/dB)	55.8	14	-9	-18	11	8	-33	13	30	10	-23	Error (mV)
			0.26	-0.17	-0.33	0.19	0.14	-0.60	0.23	0.53	0.17	-0.42	LINEARITY ERROR (dB)
			X										
3.3 GHz	INTERCEPT (mV)	3057	24	283	548	853	1132	1383	1691	1973	2230	2480	Measured Value (mV)
	SLOPE (mV/dB)	55.3	9	-9	-20	8	11	-15	17	22	3	-24	Error (mV)
			0.15	-0.16	-0.37	0.15	0.19	-0.27	0.30	0.40	0.05	-0.43	LINEARITY ERROR (dB)
			X										
3.7 GHz	INTERCEPT (mV)	3061	30	288	552	855	1136	1393	1695	1974	2235	2484	Measured Value (mV)
	SLOPE (mV/dB)	55.3	9	-9	-21	5	10	-9	16	19	3	-24	Error (mV)
			0.17	-0.16	-0.38	0.10	0.18	-0.17	0.29	0.34	0.06	-0.43	LINEARITY ERROR (dB)
			X										
4.1 GHz	INTERCEPT (mV)	3061	7	255	520	828	1110	1373	1683	1962	2227	2481	Measured Value (mV)
	SLOPE (mV/dB)	55.9	20	-12	-26	3	5	-11	19	19	4	-21	Error (mV)
			0.36	-0.21	-0.47	0.05	0.09	-0.20	0.34	0.34	0.08	-0.38	LINEARITY ERROR (dB)
			X										
4.5 GHz	INTERCEPT (mV)	3057	15	270	547	848	1126	1389	1689	1964	2228	2478	Measured Value (mV)
	SLOPE (mV/dB)	55.4	7	-15	-15	8	9	-5	18	16	2	-25	Error (mV)
			0.13	-0.27	-0.28	0.15	0.17	-0.09	0.32	0.28	0.04	-0.45	LINEARITY ERROR (dB)
			X										
4.9 GHz	INTERCEPT (mV)	3055	-4	243	527	830	1107	1368	1676	1956	2220	2474	Measured Value (mV)
	SLOPE (mV/dB)	55.9	13	-19	-14	9	7	-11	17	18	3	-23	Error (mV)
			0.24	-0.34	-0.26	0.17	0.12	-0.20	0.31	0.32	0.05	-0.40	LINEARITY ERROR (dB)
			X										
Flatness +/-dB			0.4	0.6	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.1	
Slope Avg(mv/dB)		55.5											
Slope Min(mv/dB)		54.8											
Slope Max(mv/dB)		55.9											
V Out Min @ -55dBm		-0.004											
V Out Max @ -55dBm		0.039											
V Avg @ -55dBm		0.017											
V Avg @ -10dBm		2.481											
Max Delta -55 to -45dBm		1.41	dB										
Max Delta -45 to -10dBm		1.41	dB										

