

SERIAL # PL23727 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	345
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.31:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.31:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.64/-0.45 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.3-55.7 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.019/0.037
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.030
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.495
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	0.3
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	0.3
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-112
4.7	Log Video Output Rise Time	20	MAX	ns	11.9



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	11.4
4.10	Log Video Output Pulse Delay	35	MAX	ns	15
4.11	RF Saturated Output Power	+15	MAX	dBm	13.47

TESTED BY J.Emperador

QA *[Signature]*
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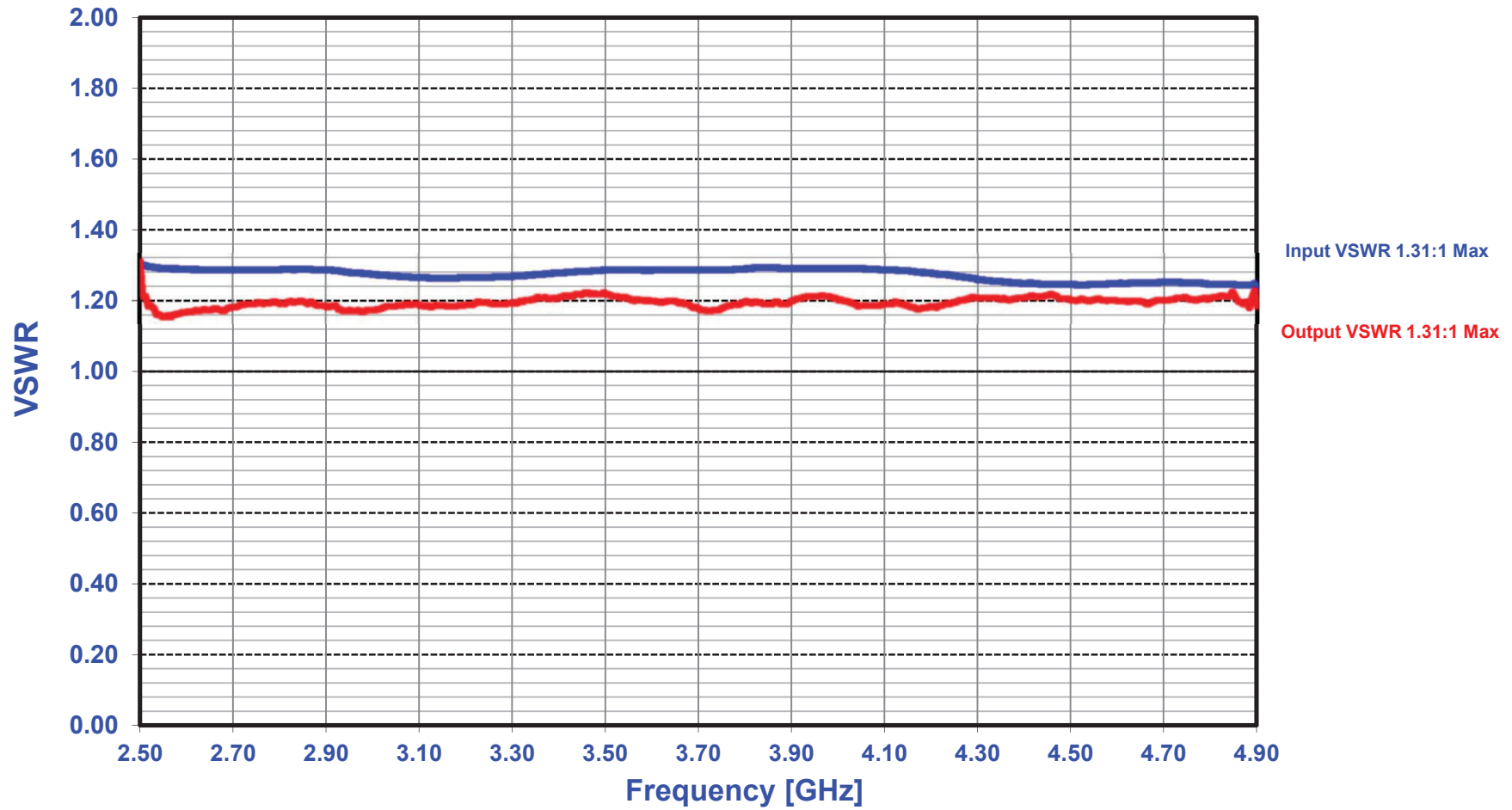
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23727
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: 11/07/2018
 SERIAL NO: PL23725
 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)	3081	32	288	582	883	1144	1391	1687	1975	2277	2505	Measured Value (mV)
	SLOPE (mV/dB)	55.5	5	-17	0	23	6	-24	-6	5	29	-21	Error (mV)
			0.09	-0.30	-0.01	0.41	0.12	-0.44	-0.10	0.08	0.52	-0.37	LINEARITY ERROR (dB)
			X										
2.9 GHz	INTERCEPT (mV)	3073	27	278	564	869	1140	1390	1681	1965	2271	2493	Measured Value (mV)
	SLOPE (mV/dB)	55.6	9	-18	-9	18	11	-17	-3	3	31	-25	Error (mV)
			0.17	-0.32	-0.17	0.32	0.20	-0.30	-0.06	0.05	0.56	-0.45	LINEARITY ERROR (dB)
			X										
3.3 GHz	INTERCEPT (mV)	3068	37	287	566	869	1144	1397	1680	1959	2268	2494	Measured Value (mV)
	SLOPE (mV/dB)	55.3	11	-15	-13	14	12	-11	-5	-2	30	-21	Error (mV)
			0.21	-0.27	-0.23	0.25	0.22	-0.21	-0.09	-0.04	0.54	-0.37	LINEARITY ERROR (dB)
			X										
3.7 GHz	INTERCEPT (mV)	3075	31	275	545	850	1132	1393	1677	1958	2272	2498	Measured Value (mV)
	SLOPE (mV/dB)	55.7	22	-13	-21	5	8	-9	-4	-2	33	-19	Error (mV)
			0.40	-0.23	-0.38	0.09	0.15	-0.17	-0.08	-0.03	0.60	-0.35	LINEARITY ERROR (dB)
			X										
4.1 GHz	INTERCEPT (mV)	3069	36	279	552	854	1135	1394	1676	1954	2269	2497	Measured Value (mV)
	SLOPE (mV/dB)	55.5	21	-14	-18	6	9	-9	-5	-5	33	-17	Error (mV)
			0.38	-0.25	-0.33	0.11	0.17	-0.17	-0.09	-0.09	0.59	-0.31	LINEARITY ERROR (dB)
			X										
4.5 GHz	INTERCEPT (mV)	3062	28	271	552	852	1123	1379	1667	1947	2265	2492	Measured Value (mV)
	SLOPE (mV/dB)	55.5	20	-15	-12	11	4	-17	-7	-5	36	-15	Error (mV)
			0.36	-0.27	-0.21	0.20	0.08	-0.31	-0.13	-0.08	0.64	-0.27	LINEARITY ERROR (dB)
			X										
4.9 GHz	INTERCEPT (mV)	3063	19	259	549	851	1126	1384	1665	1942	2260	2489	Measured Value (mV)
	SLOPE (mV/dB)	55.6	16	-22	-10	14	11	-9	-7	-8	32	-17	Error (mV)
			0.30	-0.39	-0.18	0.25	0.19	-0.17	-0.12	-0.14	0.57	-0.31	LINEARITY ERROR (dB)
			X										
Flatness +/-dB			0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.1	
Slope Avg(mv/dB)		55.5											
Slope Min(mv/dB)		55.3											
Slope Max(mv/dB)		55.7											
V Out Min @ -55dBm		0.019											
V Out Max @ -55dBm		0.037											
V Avg @ -55dBm		0.030											
V Avg @ -10dBm		2.495											
Max Delta -55 to -45dBm		0.67	dB										
Max Delta -45 to -10dBm		0.67	dB										

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-45-55MV
 SERIAL NO: PL23725
 Test Temp: +25C

GRAPH # 3

