

SERIAL # PL23728 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	313
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.35:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.27:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.47/-0.55 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	55.0-56.0 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	-0.014/0.021
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.001
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.476
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	-180
4.7	Log Video Output Rise Time	20	MAX	ns	12.6



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	<100
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0.0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	12.1
4.10	Log Video Output Pulse Delay	35	MAX	ns	16
4.11	RF Saturated Output Power	+15	MAX	dBm	13.59

TESTED BY_J.Emperador_

QA *[Signature]*
11/9/18



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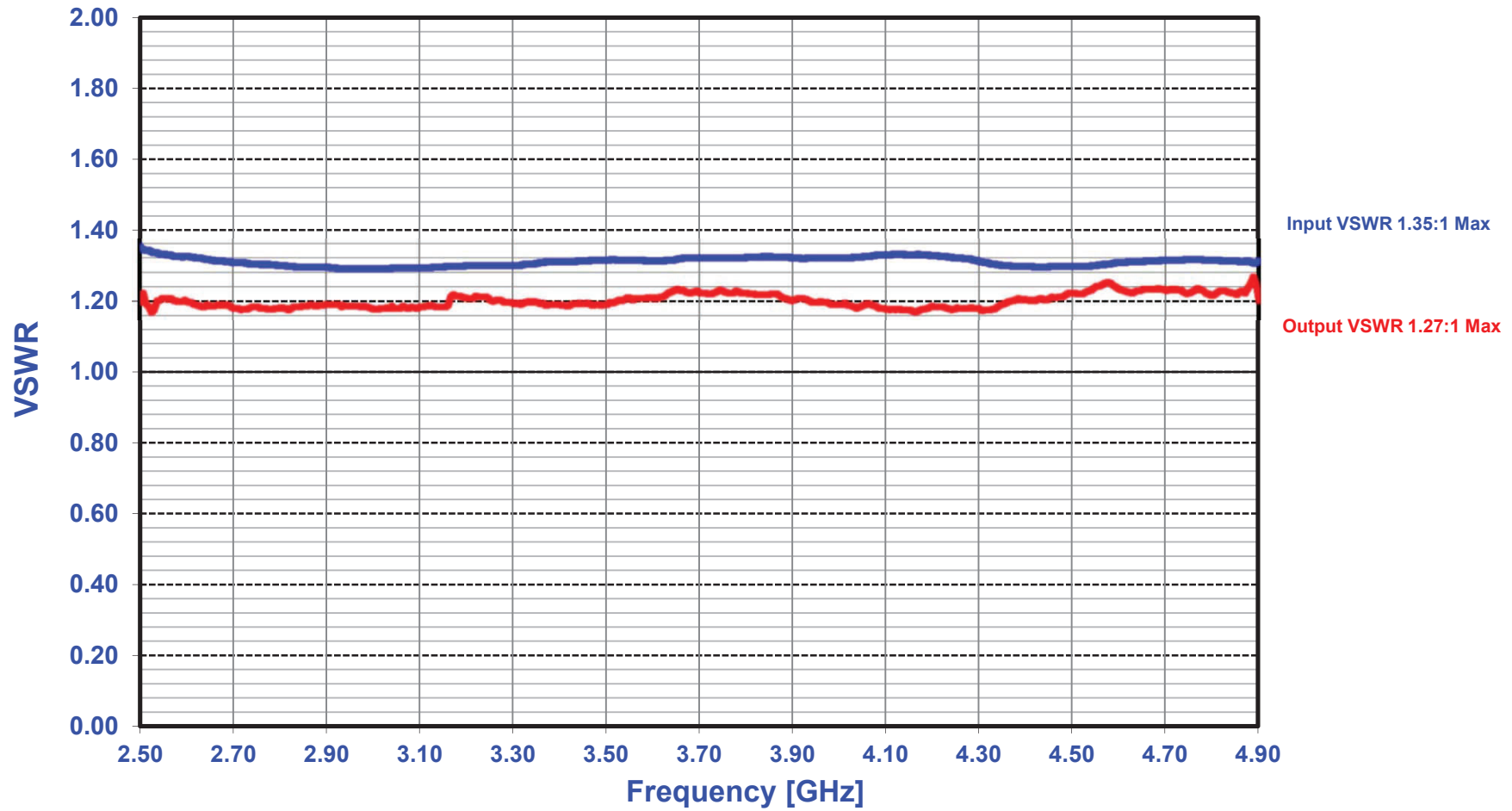
SCALE

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Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23728
Date: 11/9/2018

Temperature: +25C

VSWR GRAPH 1 & 2





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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-45-55MV
 TESTED BY: J.Emperador
 DATE: 11/08/2018
 SERIAL NO: PL23728
 Test Temp: +25C

GRAPH # 3

Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	RF Input Power (dBm)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
2.5 GHz	INTERCEPT (mV)	3062	21	297	595	886	1131	1399	1700	1968	2246	2486	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	55	-14	-13	10	26	-4	-11	14	7	10	-25				
			-0.25	-0.23	0.18	0.47	-0.08	-0.21	0.26	0.13	0.18	-0.46				
			X													
2.9 GHz	INTERCEPT (mV)	3058	-14	250	529	829	1098	1360	1672	1953	2236	2471	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	56	7	-9	-10	10	0	-18	14	15	18	-27				
			0.13	-0.16	-0.17	0.19	-0.01	-0.33	0.25	0.27	0.32	-0.48				
			X													
3.3 GHz	INTERCEPT (mV)	3057	4	268	544	841	1117	1390	1684	1954	2235	2474	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	55.6	3	-11	-12	7	5	0	16	8	11	-28				
			0.06	-0.19	-0.22	0.12	0.09	0.00	0.29	0.15	0.20	-0.50				
			X													
3.7 GHz	INTERCEPT (mV)	3063	15	278	553	848	1126	1405	1691	1959	2243	2480	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	55.5	4	-11	-13	4	5	6	15	6	12	-28				
			0.07	-0.19	-0.24	0.08	0.09	0.12	0.27	0.10	0.22	-0.51				
			X													
4.1 GHz	INTERCEPT (mV)	3068	-11	246	518	818	1102	1386	1680	1951	2238	2478	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	56.2	13	-11	-20	-1	2	5	18	8	14	-28				
			0.24	-0.19	-0.35	-0.02	0.03	0.09	0.32	0.14	0.24	-0.49				
			X													
4.5 GHz	INTERCEPT (mV)	3061	3	268	552	843	1121	1404	1688	1954	2238	2475	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	55.6	-1	-14	-8	5	5	10	16	4	10	-30				
			-0.01	-0.25	-0.14	0.10	0.10	0.19	0.30	0.08	0.19	-0.55				
			X													
4.9 GHz	INTERCEPT (mV)	3059	-12	251	541	831	1106	1387	1678	1948	2233	2471	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)	
	SLOPE (mV/dB)	55.9	1	-15	-4	6	2	4	16	6	12	-29				
			0.02	-0.27	-0.08	0.12	0.04	0.07	0.28	0.12	0.22	-0.52				
			X													
Flatness +/-dB			0.3	0.5	0.7	0.6	0.3	0.4	0.3	0.2	0.1	0.1				

Slope Avg(mv/dB)	55.7
Slope Min(mv/dB)	55.0
Slope Max(mv/dB)	56.2

V Out Min @ -55dBm	-0.014
V Out Max @ -55dBm	0.021
V Avg @ -55dBm	0.001
V Avg @ -10dBm	2.476

Max Delta -55 to -45dBm	1.38	dB
Max Delta -45 to -10dBm	1.38	dB

