

SERIAL # PL23723 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	1.32:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.16:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.52/-0.44 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.5-54.9 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	-0.002/0.023
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.015
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.474
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	-194
4.7	Log Video Output Rise Time	20	MAX	ns	11.4



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	11.5
4.10	Log Video Output Pulse Delay	35	MAX	ns	15
4.11	RF Saturated Output Power	+15	MAX	dBm	11.77

TESTED BY_J.Emperador_

QA *[Signature]*
11/9/18



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REVISION A 1

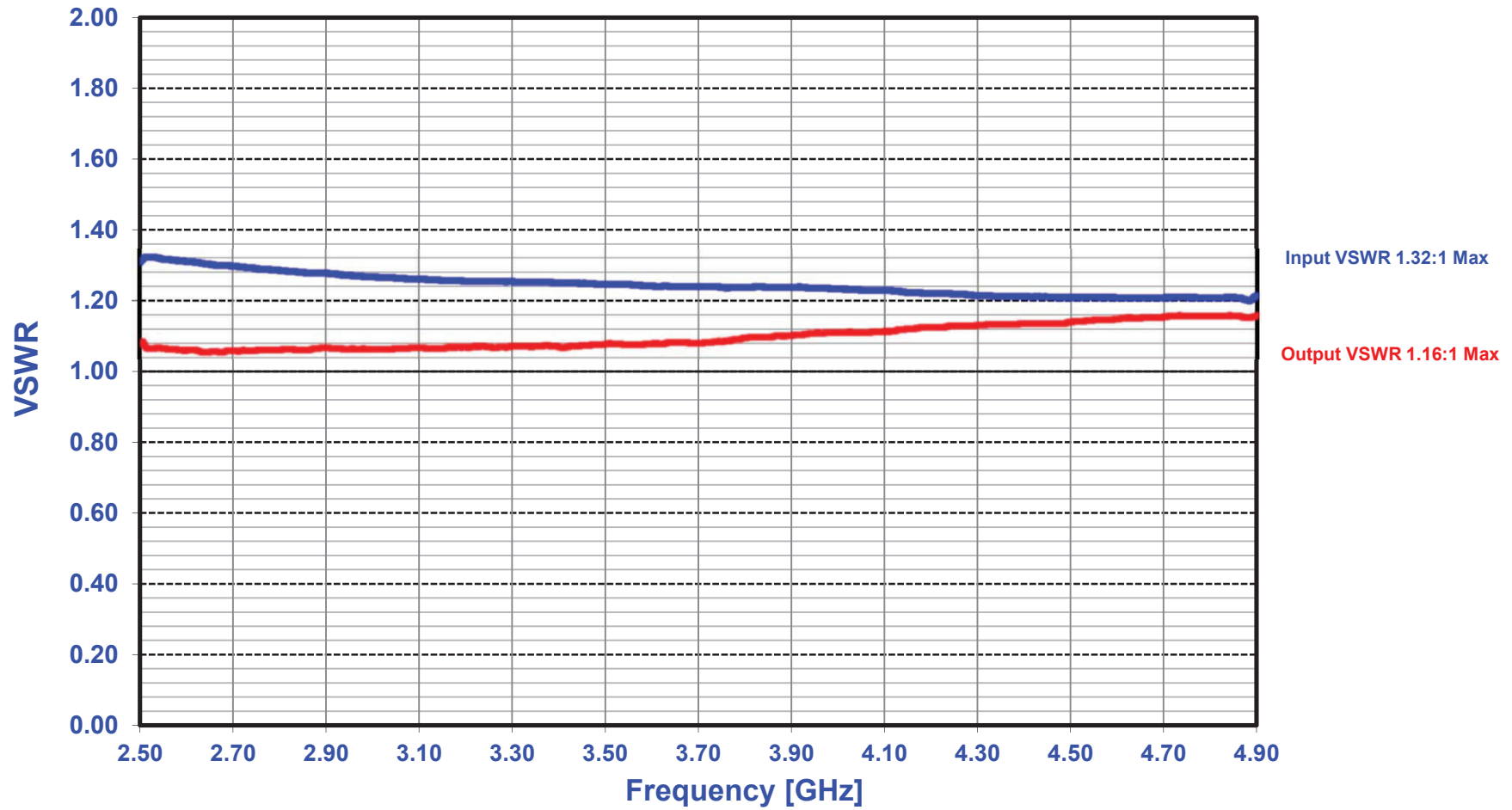
SCALE

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Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23723
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: PL23723
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3039
	SLOPE (mV/dB)	54.9

2.9 GHz	INTERCEPT (mV)	3025
	SLOPE (mV/dB)	54.5

3.3 GHz	INTERCEPT (mV)	3026
	SLOPE (mV/dB)	54.6

3.7 GHz	INTERCEPT (mV)	3030
	SLOPE (mV/dB)	54.7

4.1 GHz	INTERCEPT (mV)	3025
	SLOPE (mV/dB)	54.7

4.5 GHz	INTERCEPT (mV)	3019
	SLOPE (mV/dB)	54.6

4.9 GHz	INTERCEPT (mV)	3012
	SLOPE (mV/dB)	54.5

Flatness +/-dB

Slope Avg(mv/dB)	54.6
Slope Min(mv/dB)	54.5
Slope Max(mv/dB)	54.9

V Out Min @ -55dBm	-0.002
V Out Max @ -55dBm	0.023
V Avg @ -55dBm	0.015
V Avg @ -10dBm	2.474

Max Delta -55 to -45dBm	0.68	dB
Max Delta -45 to -10dBm	0.68	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
-2	278	599	868	1116	1398	1684	1933	2205	2483
-24	-18	28	23	-3	5	16	-9	-11	-7
-0.44	-0.33	0.52	0.42	-0.06	0.09	0.30	-0.16	-0.20	-0.13

X

11	285	590	860	1117	1400	1678	1928	2202	2469
-17	-15	17	15	-1	10	15	-7	-6	-11
-0.30	-0.28	0.32	0.27	-0.01	0.18	0.28	-0.13	-0.11	-0.21

X

15	283	578	850	1115	1400	1673	1924	2202	2474
-8	-13	9	8	0	12	12	-10	-5	-6
-0.14	-0.24	0.17	0.15	0.00	0.22	0.22	-0.18	-0.09	-0.11

X

21	284	570	841	1109	1398	1672	1925	2208	2480
2	-9	3	1	-5	10	11	-10	-1	-2
0.03	-0.16	0.06	0.01	-0.09	0.19	0.20	-0.18	-0.01	-0.04

X

23	283	566	837	1107	1399	1668	1921	2205	2477
4	-9	1	-2	-5	14	9	-11	0	-2
0.08	-0.16	0.01	-0.03	-0.09	0.25	0.17	-0.20	0.00	-0.03

X

19	280	564	833	1103	1396	1664	1917	2200	2469
3	-9	2	-2	-5	15	10	-10	0	-4
0.05	-0.17	0.04	-0.04	-0.09	0.27	0.18	-0.18	0.00	-0.07

X

17	279	562	831	1100	1393	1659	1912	2194	2463
2	-9	2	-1	-5	16	9	-10	0	-4
0.03	-0.16	0.04	-0.03	-0.09	0.29	0.17	-0.18	-0.01	-0.07

X

0.2	0.1	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.2
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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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