

SERIAL #_PL22481_____

TEST DATA SHEET

DATE 4-19-18

REF.	NOMENCLATURE	VALUE	TOL	UNITS	+25 ⁰ 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	+400
		-200		mA	-50
4.4	Input VSWR	2.0:1	MAX	1.51:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.37:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	-0.52 / +0.53dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.4 / 55.6mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.031 / 0.051
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.043
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	1.4
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	-144
4.7	Log Video Output Rise Time	20	MAX	ns	16.4



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	0
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	13
4.10	Log Video Output Pulse Delay	35	MAX	ns	16.5
4.11	RF Saturated Output Power	+15	MAX	dBm	+14

TESTED BY JM

QA *J. K. [Signature]*



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REVISION A 1

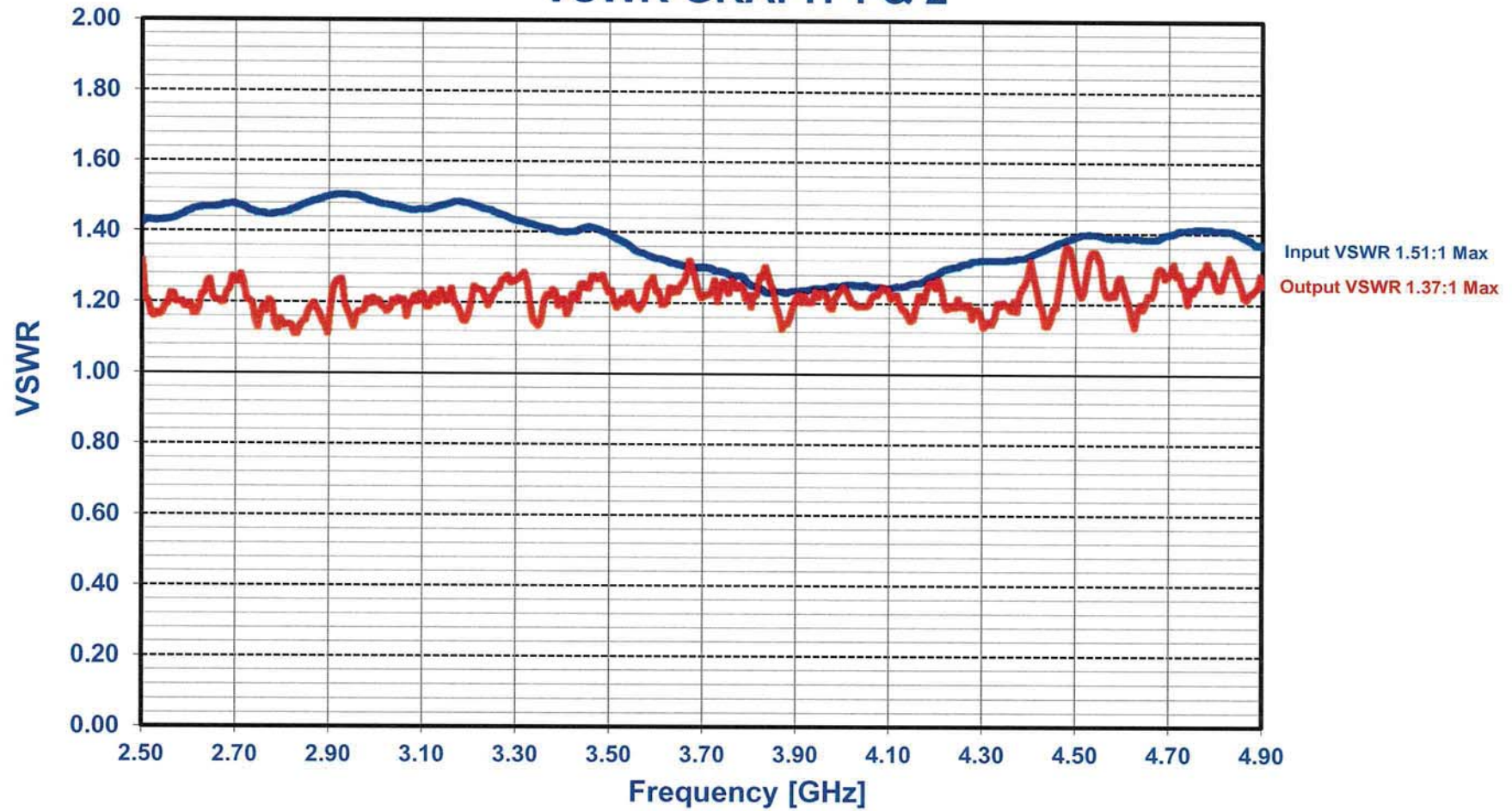
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL22481
Date: 4/19/2018

Temperature: +25C

VSWR GRAPH 1 & 2





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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-60-50MV
 TESTED BY: JOHNM
 DATE: 4-19-18
 SERIAL NO: PL22481
 Test Temp: +25C

GRAPH # 3

VOS= -144MV

Frequency

2.5 GHz	INTERCEPT (mV)	3067
	SLOPE (mV/dB)	54.4

2.9 GHz	INTERCEPT (mV)	3066
	SLOPE (mV/dB)	54.6

3.3 GHz	INTERCEPT (mV)	3078
	SLOPE (mV/dB)	55

3.7 GHz	INTERCEPT (mV)	3099
	SLOPE (mV/dB)	55.6

4.1 GHz	INTERCEPT (mV)	3088
	SLOPE (mV/dB)	55.3

4.5 GHz	INTERCEPT (mV)	3086
	SLOPE (mV/dB)	55.4

4.9 GHz	INTERCEPT (mV)	3071
	SLOPE (mV/dB)	55.4

Flatness +/-dB

Slope Avg(mv/dB)	55.1
Slope Min(mv/dB)	54.4
Slope Max(mv/dB)	55.6

V Out Min @ -55dBm	0.031
V Out Max @ -55dBm	0.051
V Avg @ -55dBm	0.043
V Avg @ -10dBm	2.514

Max Delta -55 to -45dBm	1.31	dB
Max Delta -45 to -10dBm	1.31	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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46	327	641	919	1163	1450	1717	1971	2243	2507
-28	-19	23	29	1	16	10	-8	-8	-16
-0.52	-0.35	0.42	0.53	0.01	0.29	0.19	-0.14	-0.14	-0.29

x

44	320	623	903	1156	1439	1706	1970	2246	2504
-18	-16	14	21	1	11	5	-4	-1	-16
-0.34	-0.28	0.26	0.39	0.03	0.21	0.10	-0.07	-0.01	-0.29

x

48	311	605	889	1152	1449	1713	1974	2253	2511
-5	-17	2	11	-1	21	10	-4	0	-17
-0.09	-0.31	0.04	0.20	-0.02	0.38	0.18	-0.07	0.00	-0.31

x

44	309	598	882	1153	1451	1714	1981	2267	2535
1	-12	-1	5	-2	19	4	-7	1	-8
0.01	-0.22	-0.02	0.09	-0.03	0.34	0.07	-0.12	0.02	-0.15

x

51	310	596	879	1152	1457	1715	1976	2263	2519
3	-15	-5	2	-2	27	9	-7	4	-16
0.05	-0.26	-0.09	0.03	-0.03	0.49	0.16	-0.12	0.07	-0.30

x

40	300	585	870	1146	1447	1705	1971	2258	2518
4	-14	-6	2	1	24	5	-6	4	-14
0.06	-0.25	-0.11	0.03	0.01	0.44	0.09	-0.11	0.07	-0.24

x

31	286	569	856	1130	1434	1692	1954	2243	2506
8	-14	-9	1	-2	25	6	-9	3	-11
0.14	-0.26	-0.15	0.03	-0.03	0.46	0.11	-0.16	0.06	-0.19

x

0.2	0.4	0.7	0.6	0.3	0.2	0.2	0.2	0.2	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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LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-60-50MV
SERIAL NO: PL22481
Test Temp: +25C

GRAPH # 3

