


SERIAL #_PL22482_____

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	1.43:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.35:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	-0.48 / +0.58dB	Graph 3
4.5	Log slope	55.5	+/-5 %	55.0 - 56.1mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.014 / 0.044
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	0.028
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.531
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	1.2
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	1.0
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-177
4.7	Log Video Output Rise Time	20	MAX	ns	14

	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	0.0
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0.0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	12
4.10	Log Video Output Pulse Delay	35	MAX	ns	16
4.11	RF Saturated Output Power	+15	MAX	dBm	14.5

TESTED BY _____ JM _____

QA 



SIZE
A

CAGE CODE
71A34

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REVISION A 1

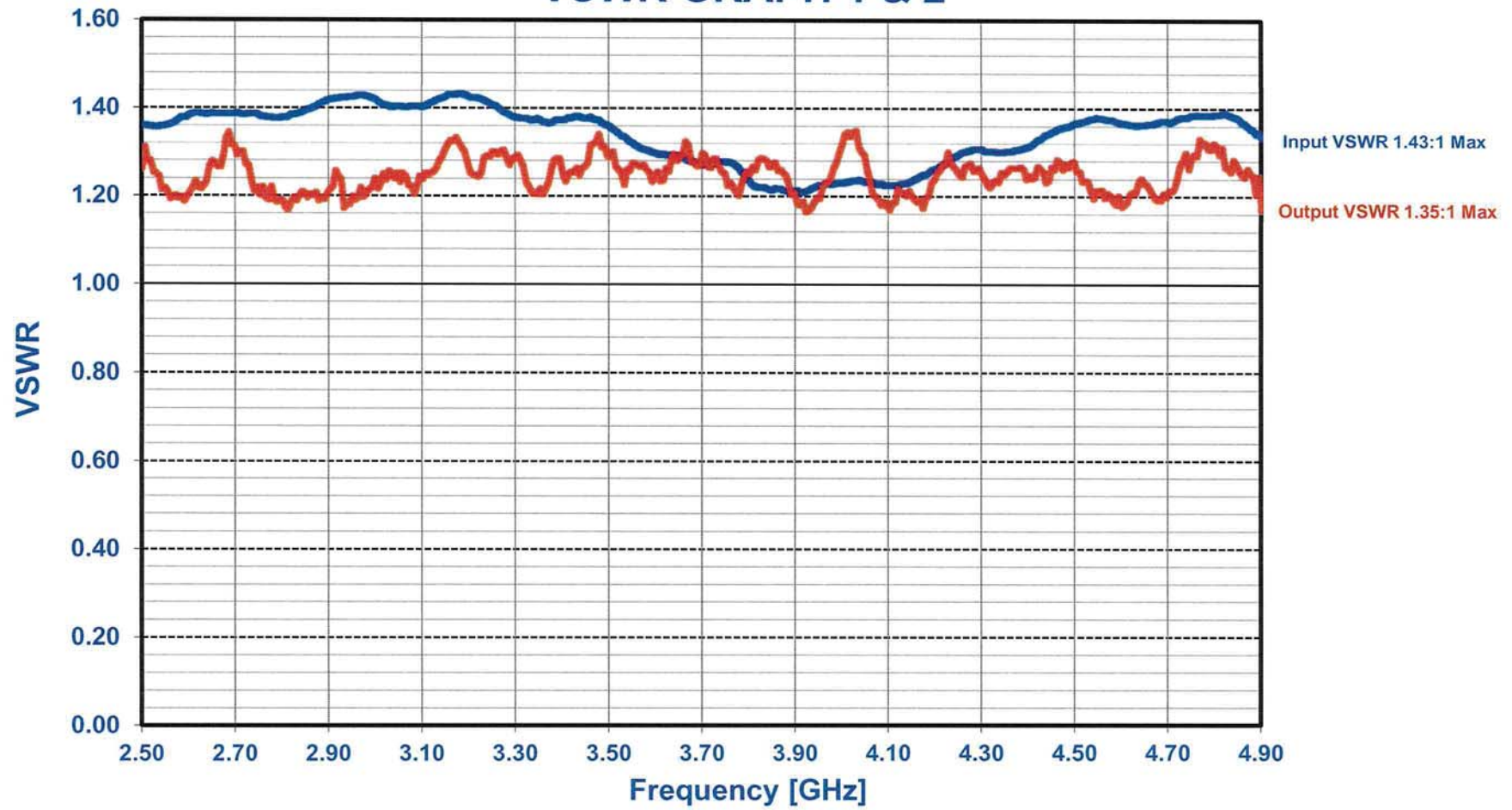
SCALE

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Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL22482
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: PL22482
 Test Temp: +25C

GRAPH # 3

VOS= -177MV

Frequency

2.5 GHz	INTERCEPT (mV)	3087
	SLOPE (mV/dB)	55

2.9 GHz	INTERCEPT (mV)	3084
	SLOPE (mV/dB)	55.3

3.3 GHz	INTERCEPT (mV)	3092
	SLOPE (mV/dB)	56.1

3.7 GHz	INTERCEPT (mV)	3115
	SLOPE (mV/dB)	55.9

4.1 GHz	INTERCEPT (mV)	3090
	SLOPE (mV/dB)	55.5

4.5 GHz	INTERCEPT (mV)	3084
	SLOPE (mV/dB)	55.8

4.9 GHz	INTERCEPT (mV)	3066
	SLOPE (mV/dB)	55.5

Flatness +/-dB

Slope Avg(mv/dB)	55.6
Slope Min(mv/dB)	55.0
Slope Max(mv/dB)	56.1

V Out Min @ -55dBm	0.014
V Out Max @ -55dBm	0.044
V Avg @ -55dBm	0.028
V Avg @ -10dBm	2.531

Max Delta -55 to -45dBm	1.17	dB
Max Delta -45 to -10dBm	1.17	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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33	322	642	909	1152	1443	1713	1976	2259	2530
-27	-13	32	24	-8	8	2	-10	-2	-6
-0.48	-0.23	0.58	0.43	-0.15	0.14	0.04	-0.18	-0.04	-0.11

30	312	621	892	1142	1427	1698	1974	2262	2526
-15	-10	23	18	-8	0	-5	-5	7	-6
-0.28	-0.17	0.42	0.33	-0.15	0.01	-0.09	-0.09	0.12	-0.10

14	279	578	857	1115	1410	1688	1968	2263	2528
5	-10	9	7	-15	0	-2	-3	12	-3
0.10	-0.18	0.16	0.13	-0.26	0.00	-0.04	-0.05	0.21	-0.06

44	318	616	883	1144	1439	1707	1995	2289	2559
2	-4	15	3	-16	0	-11	-3	12	2
0.03	-0.07	0.27	0.05	-0.28	0.00	-0.20	-0.05	0.21	0.04

37	304	602	873	1140	1440	1698	1969	2267	2531
0	-11	10	3	-7	15	-4	-11	9	-4
0.00	-0.19	0.18	0.06	-0.13	0.27	-0.08	-0.20	0.17	-0.07

21	288	582	855	1118	1412	1679	1961	2262	2528
6	-6	9	3	-13	2	-10	-7	15	2
0.11	-0.11	0.16	0.05	-0.23	0.03	-0.18	-0.13	0.26	0.03

19	284	577	848	1107	1400	1668	1946	2247	2516
7	-5	10	3	-15	0	-10	-9	14	5
0.13	-0.10	0.18	0.06	-0.28	0.00	-0.17	-0.17	0.25	0.10

0.3	0.4	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4
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RF Input Power (dBm)

Measured Value (mV)
 Error (mV)
 LINEARITY ERROR (dB)

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 Error (mV)
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