

SERIAL # PL23754

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	312
		-200		mA	54
4.4	Input VSWR	2.0:1	MAX	1.47:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.34:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.55/-0.48 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	55.9-56.3 mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	0.009/0.022
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	2.515
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	0.5
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	0.5
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-135
4.7	Log Video Output Rise Time	20	MAX	ns	18.6



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	12.3
4.10	Log Video Output Pulse Delay	35	MAX	ns	14
4.11	RF Saturated Output Power	+15	MAX	dBm	13.72

TESTED BY_J.Emperador_

QA *J.Emperador*
11/9/13



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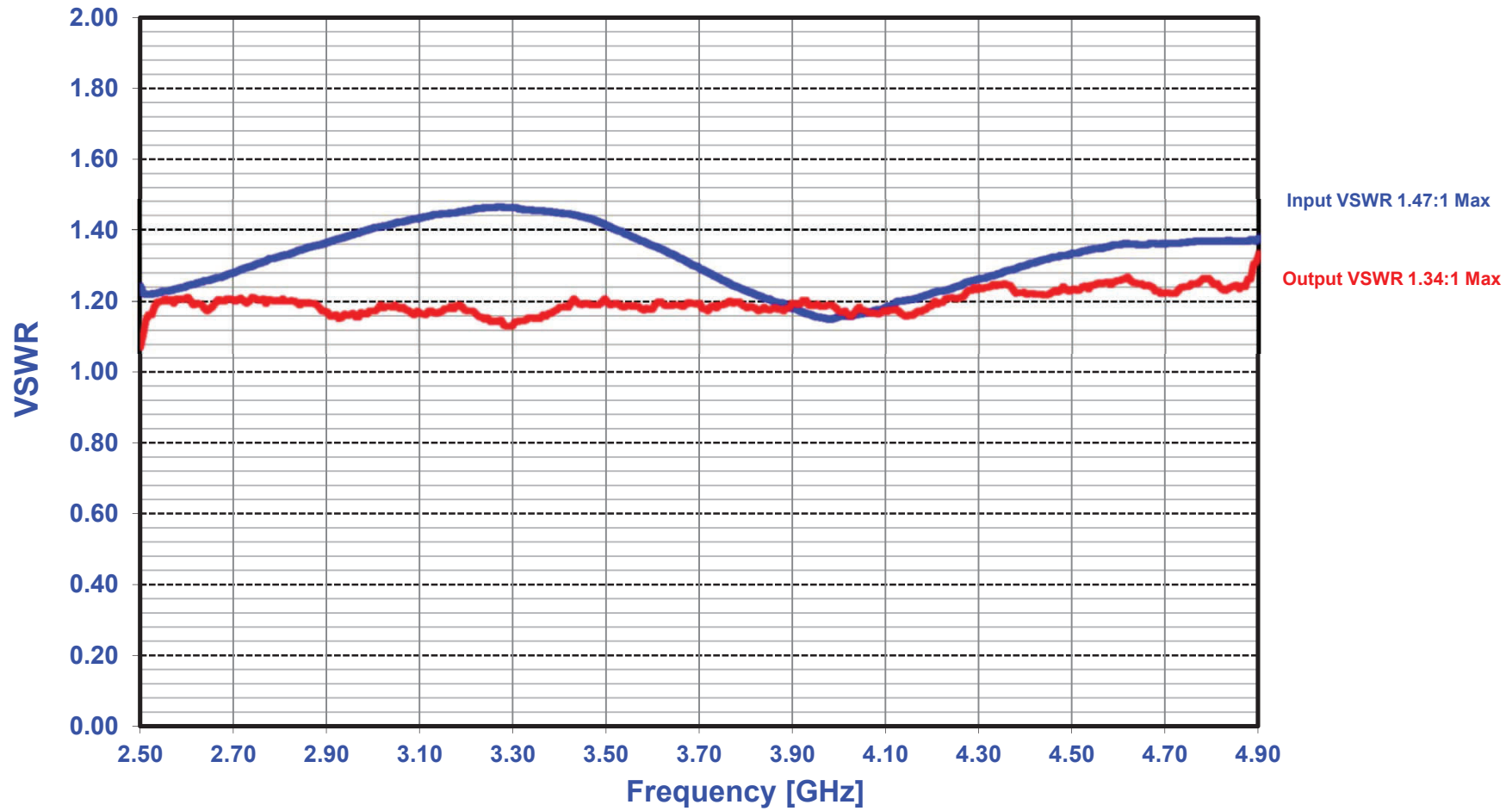
SCALE

SHEET 17 OF 18

Model Number: SDLVA-2D5G4D9G-45-55MV
Serial Number: PL23754
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: PL23754
 Test Temp: +25C

GRAPH # 3

Frequency

2.5 GHz	INTERCEPT (mV)	3090
	SLOPE (mV/dB)	55.9

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
22	279	578	875	1137	1397	1691	1969	2262	2528
5	-17	3	20	3	-16	-2	-3	10	-3
0.10	-0.30	0.05	0.36	0.05	-0.30	-0.03	-0.06	0.19	-0.05

RF Input Power (dBm)
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

2.9 GHz	INTERCEPT (mV)	3073
	SLOPE (mV/dB)	56.1

X

9	256	541	841	1112	1364	1665	1955	2253	2509
20	-13	-8	11	2	-27	-6	3	21	-3
0.37	-0.23	-0.15	0.20	0.03	-0.48	-0.11	0.06	0.37	-0.06

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

3.3 GHz	INTERCEPT (mV)	3079
	SLOPE (mV/dB)	56.2

X

11	256	534	836	1121	1389	1674	1953	2250	2511
21	-15	-17	4	8	-5	-1	-3	14	-6
0.38	-0.26	-0.31	0.07	0.14	-0.09	-0.01	-0.05	0.24	-0.11

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

3.7 GHz	INTERCEPT (mV)	3084
	SLOPE (mV/dB)	56.2

X

18	265	539	838	1124	1396	1678	1957	2257	2519
23	-11	-18	0	5	-4	-2	-4	15	-4
0.40	-0.20	-0.32	0.00	0.09	-0.06	-0.04	-0.07	0.27	-0.07

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

4.1 GHz	INTERCEPT (mV)	3082
	SLOPE (mV/dB)	56.2

X

17	261	532	832	1116	1393	1674	1953	2255	2518
27	-10	-20	-2	1	-3	-3	-5	16	-2
0.47	-0.18	-0.36	-0.03	0.03	-0.05	-0.05	-0.08	0.29	-0.03

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

4.5 GHz	INTERCEPT (mV)	3078
	SLOPE (mV/dB)	56.3

X

12	254	524	821	1104	1380	1667	1950	2254	2513
31	-9	-20	-5	-3	-9	-3	-2	21	-2
0.55	-0.15	-0.36	-0.08	-0.06	-0.15	-0.06	-0.03	0.37	-0.03

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

4.9 GHz	INTERCEPT (mV)	3074
	SLOPE (mV/dB)	56.1

X

15	258	531	828	1113	1393	1670	1947	2249	2508
25	-12	-19	-3	2	2	-2	-5	17	-5
0.45	-0.21	-0.34	-0.05	0.04	0.03	-0.03	-0.09	0.29	-0.09

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

Flatness +/-dB

X

0.1	0.2	0.5	0.5	0.3	0.3	0.2	0.2	0.1	0.2
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Slope Avg(mv/dB)	56.1
Slope Min(mv/dB)	55.9
Slope Max(mv/dB)	56.3

V Out Min @ -55dBm	0.009
V Out Max @ -55dBm	0.022
V Avg @ -55dBm	0.015
V Avg @ -10dBm	2.515

Max Delta -55 to -45dBm	0.96	dB
Max Delta -45 to -10dBm	0.96	dB

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-45-55MV
SERIAL NO: PL23754
Test Temp: +25C

GRAPH # 3

