



**SUMMARY TEST DATA
ON
SDLVA-1G20G-58-12-SFF**

PL34074/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34074/2139

Tested By: J Boze
 QA/QC By: Name
 Temperature: +25 °C
 Date: 10/01/2021
 Drawing No: 27612160

Sign: _____
 Sign: _____ **PMI QA3**
 Rev: A3

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEASUREMENT	TEST RESULT	QA QC
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass	PMI QA3
2	Frequency Flatness	±2.0 dB Typ	See Plot	±1.6 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±1.7 dB Max ±1.1 dB Avg	
4	Log Linearity Over Temp	±1.0 dB Typ. (-50 to 0 dBm @ -55°C to +85°C)	By Design	Pass	
5	Logging Range	-54 to +5 dBm	By Design	Pass	
6	Input VSWR	3.0:1 Typ	See Plot	3.5:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	1.0 V to 1.8 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.1 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.5 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	4.0 ns	
11	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	See Plot	Pass	
12	Log Video Propagation Delay	14 ns Typ	By Design	Pass	
13	TSS	-60 dBm Typ	See Plot	-56 dBm	
14	Power Supply	+12V @ 100mA Typ	90 mA	90 mA	PMI QA3

QA/QC Approval: _____

a Zimmerman

Date: _____

10-1-21



SUMMARY TEST DATA ON SDLVA-1G20G-58-12-SFF

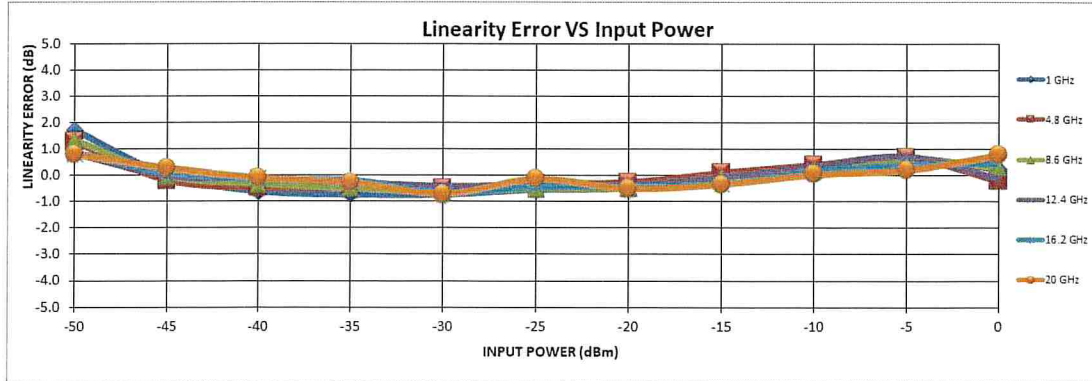
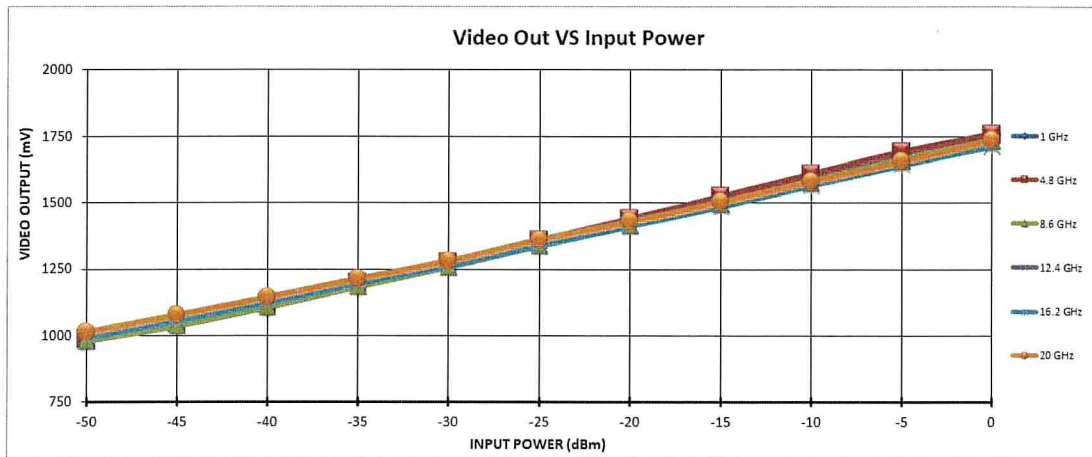
PL34074/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34074 Flash
Test Temp: +25°C

Log Transfer @ 25°C



Frequency	Intercept (mV)	Slope (mV/dB)	RF Input Power (dBm)											Measured Value (mV)	Error (mV)
			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		
1 GHz	1756.1	16.0	984	1037	1107	1185	1265	1348	1429	1517	1602	1687	1760	1756.1	1.7
			27	0	-10	-12	-12	-8	-7	1	6	11	4		
			1.70	0.02	-0.60	-0.72	-0.72	-0.53	-0.46	0.04	0.36	0.68	0.24		
4.8 GHz	1758.4	15.9	986	1042	1117	1196	1275	1357	1437	1522	1606	1690	1755	1758.4	1.3
			20	-3	-7	-8	-8	-5	-4	1	6	11	-3		
			1.27	-0.19	-0.46	-0.48	-0.49	-0.32	-0.27	0.09	0.39	0.69	-0.21		
8.6 GHz	1728.5	15.3	983	1039	1111	1185	1259	1338	1415	1498	1579	1661	1733	1728.5	1.3
			20	0	-5	-7	-10	-8	-7	-1	4	9	5		
			1.33	-0.01	-0.31	-0.48	-0.65	-0.49	-0.47	-0.05	0.24	0.60	0.30		
12.4 GHz	1715.9	14.7	995	1056	1128	1199	1270	1344	1417	1495	1574	1653	1714	1715.9	0.8
			12	0	-2	-4	-6	-6	-6	-1	5	10	-2		
			0.81	-0.03	-0.12	-0.27	-0.43	-0.38	-0.40	-0.07	0.32	0.71	-0.13		
16.2 GHz	1709.9	14.6	995	1057	1126	1198	1264	1340	1413	1487	1567	1643	1717	1709.9	0.9
			13	2	-2	-3	-9	-6	-6	-5	3	6	7		
			0.87	0.13	-0.12	-0.18	-0.64	-0.42	-0.40	-0.32	0.18	0.40	0.49		
20 GHz	1723.6	14.5	1010	1075	1142	1212	1278	1359	1426	1501	1579	1654	1735	1723.6	0.8
			12	4	-1	-4	-10	-2	-8	-5	0	3	11		
			0.80	0.28	-0.10	-0.27	-0.72	-0.14	-0.52	-0.35	0.03	0.20	0.78		
Average Slope (mV/dB)	15.1		0.9	1.3	1.2	0.9	0.6	0.7	0.8	1.2	1.3	1.6	1.5		Flatness: ± 1.6 dB





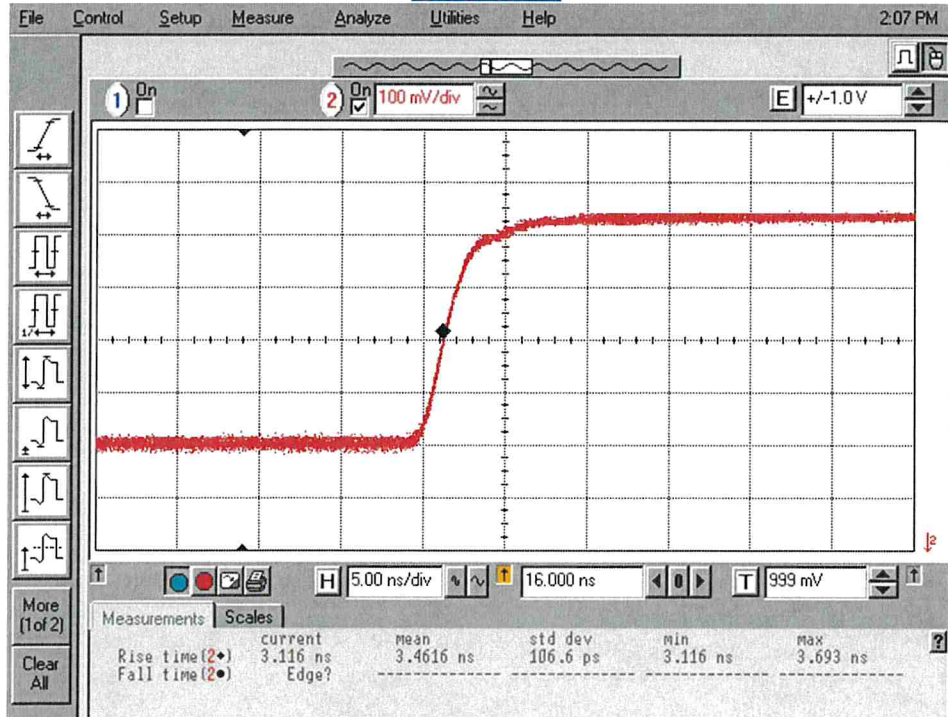
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VSWR Plot



Rise Time





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Fall/Recovery Time



TSS Plot

