



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

PL34075/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34075/2139

Tested By: J Boze Sign: PMI
 QA/QC By: Name Sign: QA3
 Temperature: +25°C
 Date: 10/01/2021
 Drawing No: 27612160 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	±2.0 dB Max ±1.4 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	0.9 V to 1.7 V		
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.4 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.1 ns		
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	4.1 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	-54 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

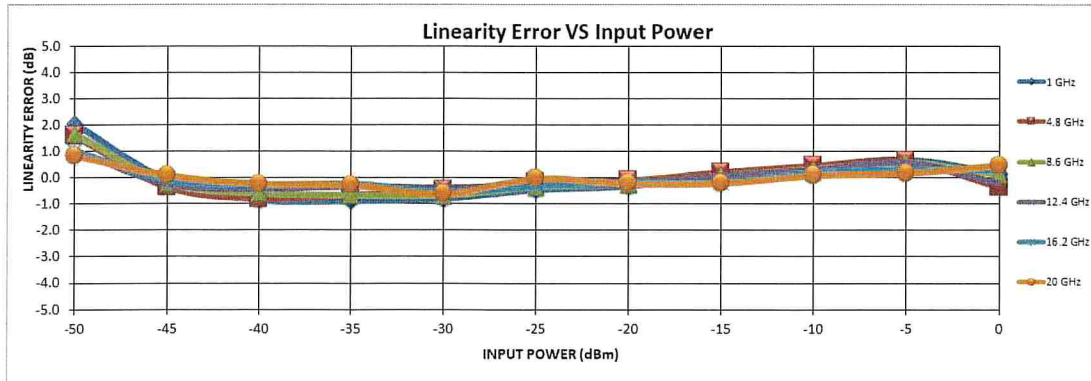
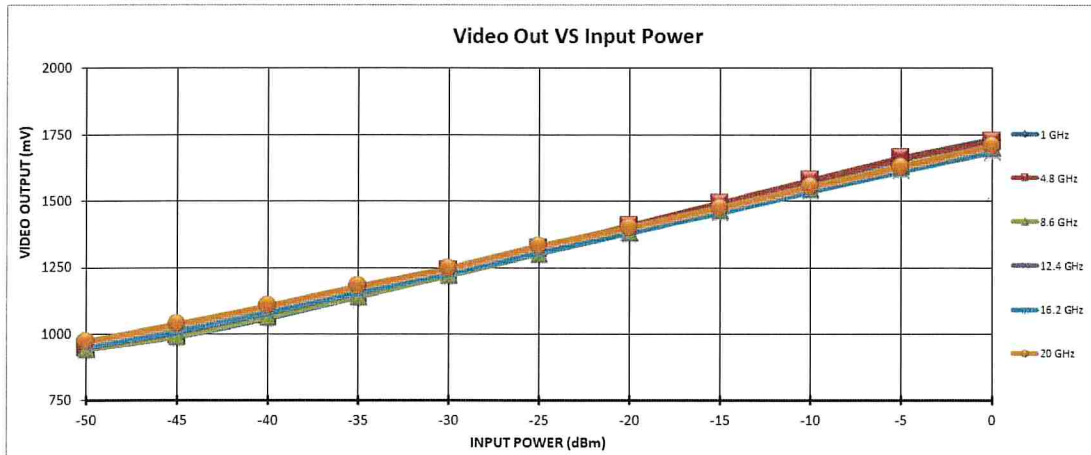
PL34075/2139

LOG TRANSFER VS FREQUENCY
 Model: SDLVA-1G20G-58-12-SFF
 Tested By: J. Boze
 Date: 10/01/21
 Serial No: PL34075 Flash
 Test Temp: +25°C

Log Transfer @ 25°C



Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	RF Input Power (dBm)											Measured Value (mV)	Error (mV)
1 GHz	1727.5	16.3	945	992	1061	1142	1226	1312	1396	1485	1571	1657	1730	2.0	
			33	-1	-14	-15	-13	-8	-5	2	7	11	3		
			2.03	-0.08	-0.85	-0.89	-0.80	-0.47	-0.32	0.14	0.41	0.68	0.16		
4.8 GHz	1730.6	16.2	947	996	1070	1153	1237	1323	1405	1491	1576	1660	1725	1.6	
			26	-6	-13	-11	-8	-3	-2	3	7	10	-6		
			1.62	-0.36	-0.79	-0.66	-0.48	-0.17	-0.11	0.20	0.45	0.64	-0.35		
8.6 GHz	1700.2	15.6	945	994	1066	1143	1221	1304	1384	1467	1549	1631	1702	1.7	
			26	-3	-9	-10	-11	-6	-4	1	5	9	2		
			1.66	-0.20	-0.59	-0.67	-0.67	-0.36	-0.24	0.07	0.32	0.57	0.11		
12.4 GHz	1685.1	15.0	953	1009	1081	1157	1231	1307	1383	1462	1540	1619	1682	1.0	
			16	-3	-6	-5	-6	-4	-3	1	4	9	-3		
			1.04	-0.22	-0.40	-0.32	-0.37	-0.29	-0.20	0.08	0.30	0.58	-0.21		
16.2 GHz	1683.5	14.9	956	1014	1085	1160	1230	1307	1384	1458	1538	1614	1688	1.0	
			15	-1	-4	-4	-8	-5	-2	-3	3	5	5		
			1.02	-0.08	-0.30	-0.25	-0.53	-0.35	-0.16	-0.18	0.20	0.32	0.30		
20 GHz	1697.3	14.7	972	1036	1104	1177	1246	1328	1399	1473	1551	1626	1704	0.8	
			12	1	-3	-4	-9	-1	-3	-3	1	2	7		
			0.81	0.09	-0.23	-0.28	-0.60	-0.04	-0.23	-0.21	0.08	0.17	0.46		
Average Slope (mV/dB)			0.9	1.4	1.4	1.1	0.8	0.8	0.7	1.1	1.2	1.5	1.6	Flatness: ± 1.6 dB	





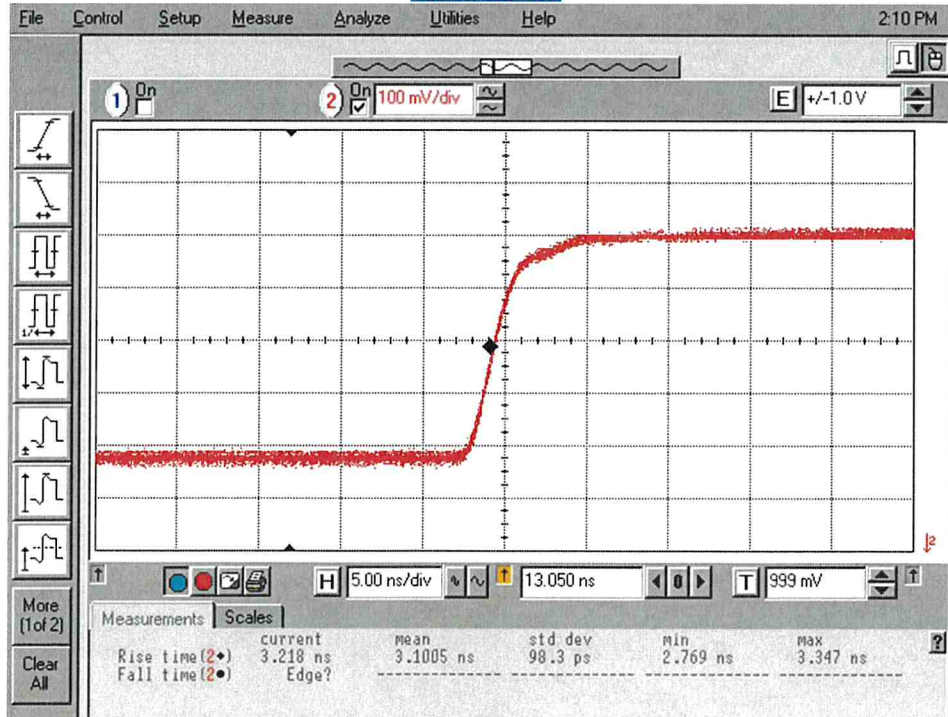
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VSWR Plot



Rise Time

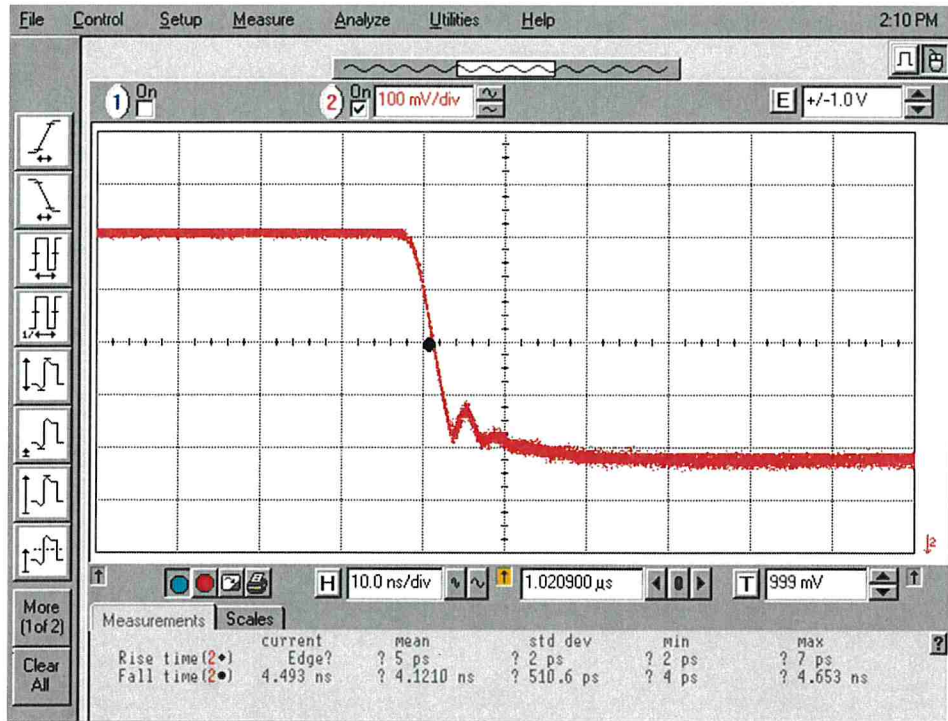




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Fall/Recovery Time



TSS Plot

