



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

PL34076/2139

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL34076/2139

Tested By: J Boze Sign: PMI QA3  
 QA/QC By: Name Sign: \_\_\_\_\_  
 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	±1.5 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±1.6 dB Max ±1.0 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	3.7:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	1.0 V to 1.7 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	14.5 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	4.1 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	-55 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

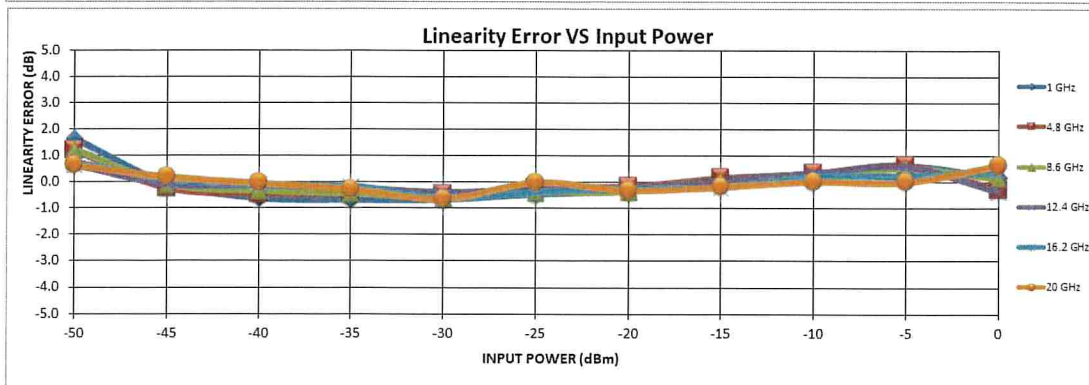
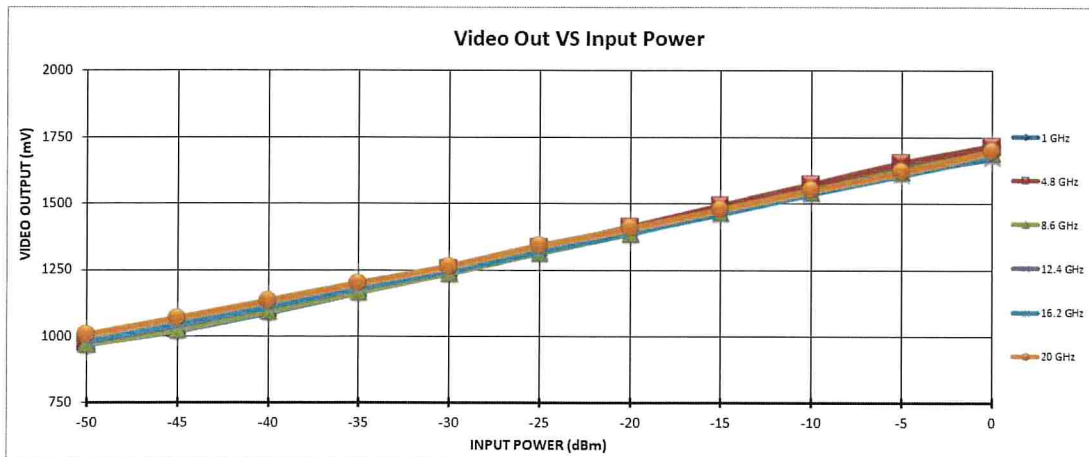
PL34076/2139

LOG TRANSFER VS FREQUENCY  
Model: SDLVA-1G20G-58-12-SFF  
Tested By: J. Boze  
Date: 10/01/21  
Serial No: PL34076 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	1714.3	15.4	971	1022	1090	1166	1243	1323	1402	1485	1565	1647	1717	1.6	
			25	-1	-10	-10	-10	-7	-5	1	4	10	3	1.6	
4.8 GHz	1716.3	15.2	973	1027	1100	1176	1252	1332	1409	1490	1569	1650	1712	1.2	
			13	-4	-7	-7	-7	-3	-3	2	5	10	-4	1.2	
8.6 GHz	1688.8	14.7	971	1025	1095	1167	1238	1315	1389	1469	1545	1623	1691	1.2	
			18	-1	-5	-7	-9	-6	-5	1	3	8	2	1.2	
12.4 GHz	1677.9	14.1	983	1043	1113	1182	1250	1322	1393	1468	1542	1616	1673	0.6	
			9	-1	-2	-3	-6	-4	-3	1	5	8	-5	0.6	
16.2 GHz	1673.7	14.0	985	1046	1113	1182	1246	1319	1391	1461	1537	1607	1679	0.7	
			10	1	-1	-2	-8	-5	-3	-3	3	3	5	0.7	
20 GHz	1685.1	13.8	1002	1065	1131	1197	1261	1339	1404	1475	1547	1616	1694	0.6	
			9	3	-1	-4	-9	0	-4	-3	0	0	9	0.6	
Average Slope (mV/dB)	14.5		1.1	1.5	1.4	1.1	0.8	0.8	0.7	1	1.1	1.5	1.5	Flatness: ± 1.5 dB	





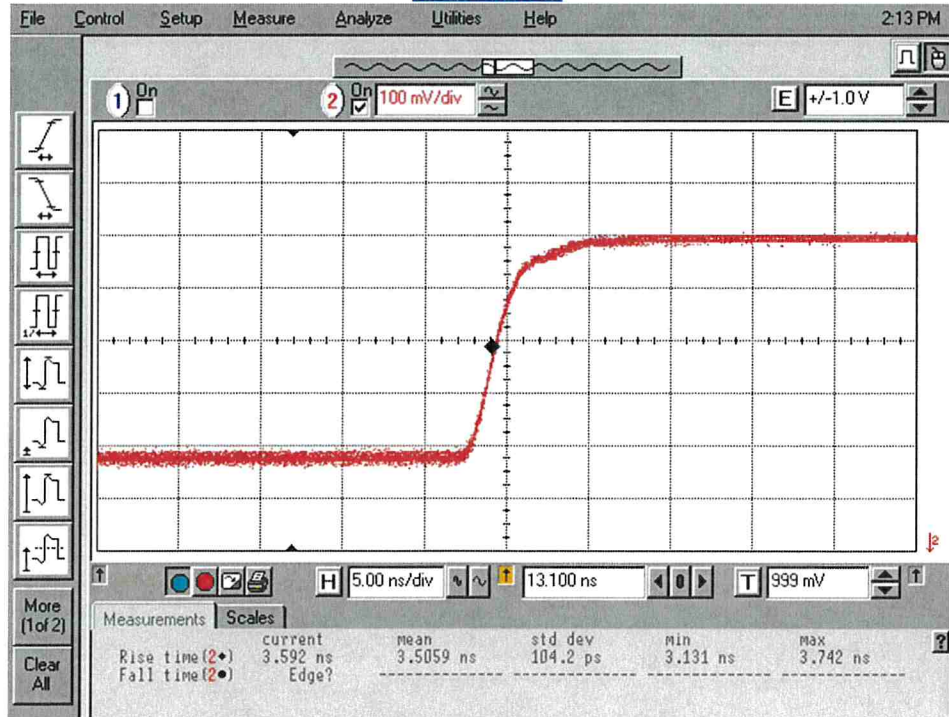
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**VSWR Plot**



**Rise Time**

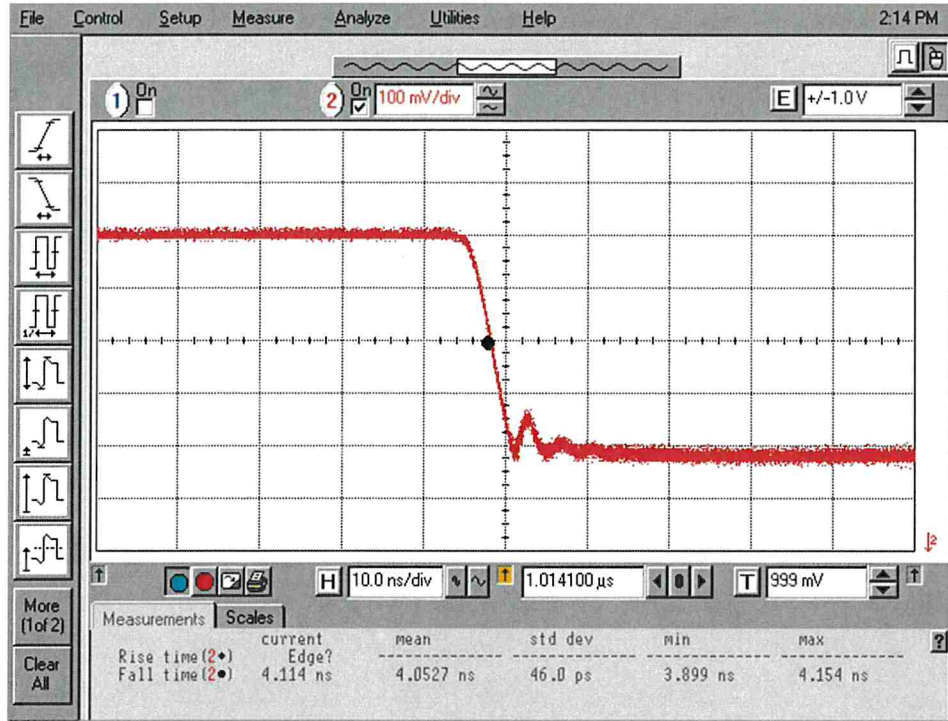




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Fall/Recovery Time



TSS Plot

