



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

PL34070/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34070/2139

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	±1.7 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	3.5:1		
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	14.4 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	4.4 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

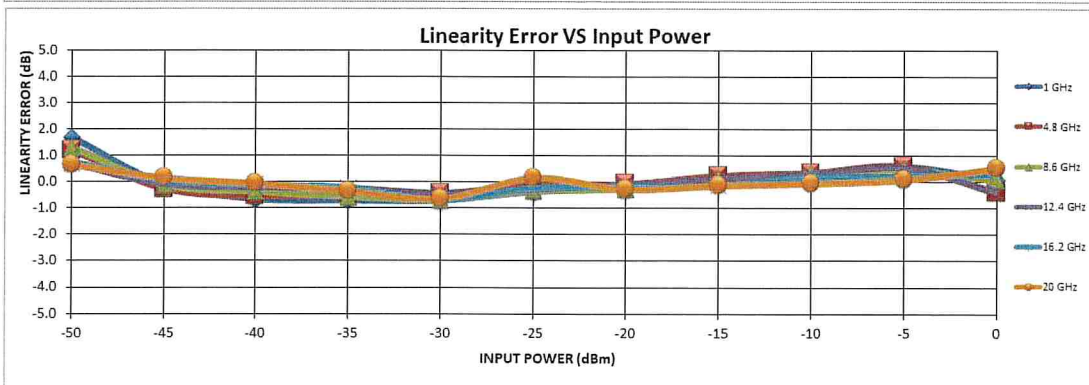
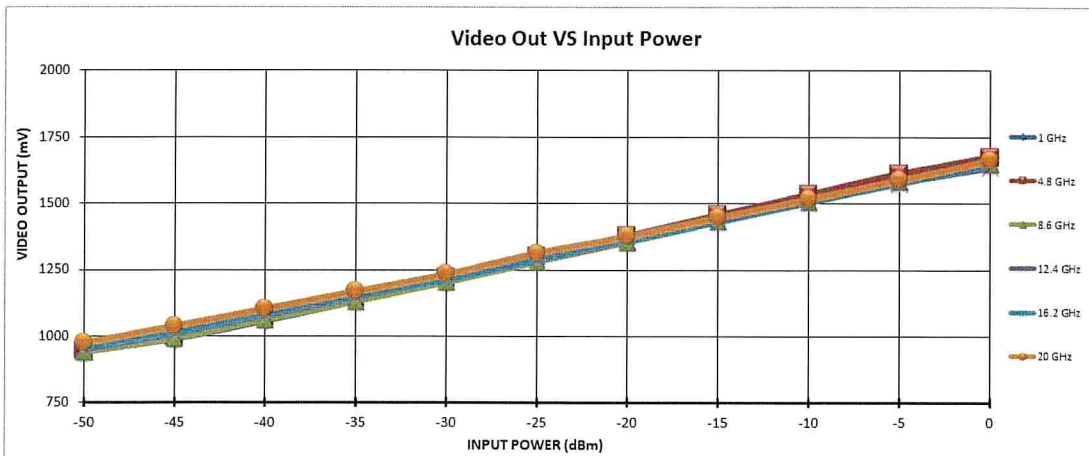
PL34070/2139

Log Transfer @ 25°C

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34070 Flash
Test Temp: +25°C



Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1 GHz	1673.9	15.2	941	990	1057	1132	1208	1289	1367	1449	1527	1607	1675	Measured Value (mV)
			25	-1	-10	-11	-11	-6	-4	3	5	9	1	Error (mV)
4.8 GHz	1678.1	15.0	944	997	1068	1144	1220	1300	1376	1456	1533	1612	1672	Measured Value (mV)
			18	-4	-8	-8	-7	-2	-1	4	5	9	-6	Error (mV)
8.6 GHz	1649.9	14.6	941	993	1062	1132	1203	1281	1355	1433	1509	1584	1651	Measured Value (mV)
			19	-2	-5	-8	-10	-5	-4	2	5	7	1	Error (mV)
12.4 GHz	1640	13.9	953	1012	1080	1149	1216	1288	1360	1433	1505	1578	1635	Measured Value (mV)
			10	-1	-3	-3	-6	-4	-1	2	4	8	-5	Error (mV)
16.2 GHz	1641.5	13.9	957	1017	1084	1152	1215	1291	1361	1431	1505	1575	1646	Measured Value (mV)
			10	1	-2	-3	-10	-3	-2	-2	3	3	5	Error (mV)
20 GHz	1654.8	13.8	974	1036	1102	1167	1232	1312	1375	1446	1516	1587	1662	Measured Value (mV)
			9	2	-1	-5	-9	2	-4	-2	-1	1	7	Error (mV)
Average Slope (mV/dB)	14.4		1.1	1.6	1.6	1.2	1	1.1	0.7	0.9	1	1.3	1.4	Flatness: ± 1.6 dB





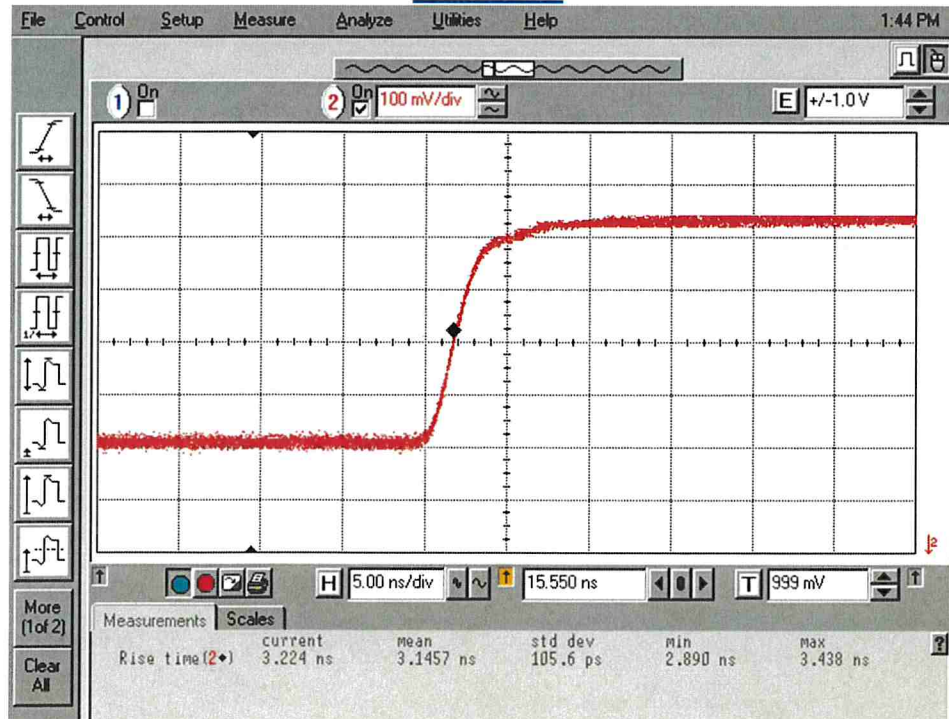
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VSWR Plot



Rise Time

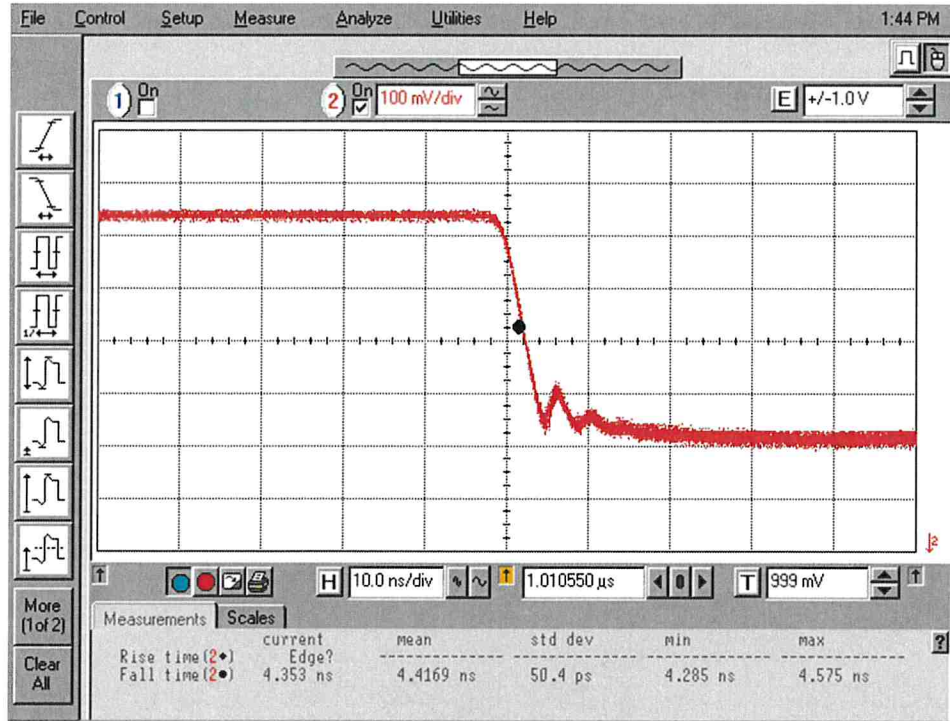




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Fall/Recovery Time



TSS Plot

