



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

PL34073/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34073/2139

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

Sign: _____
 Sign: _____
 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	±1.9 dB Max ±1.3 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	0.9 V to 1.7 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.0 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.0 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	13.1 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



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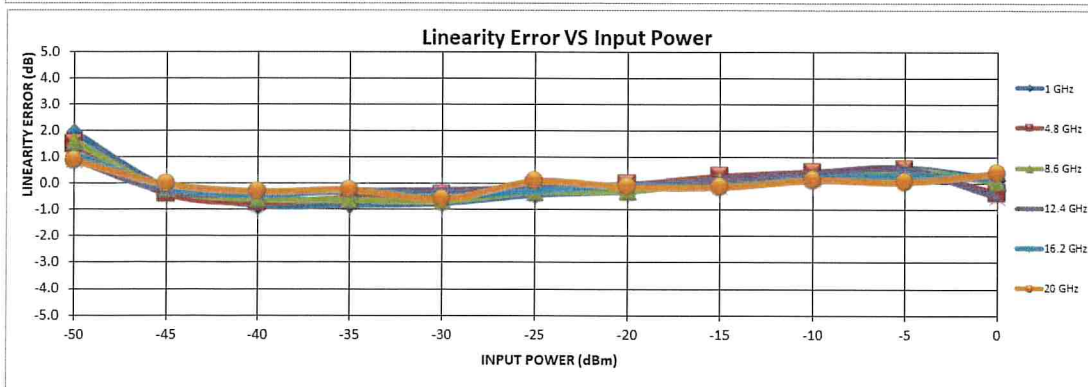
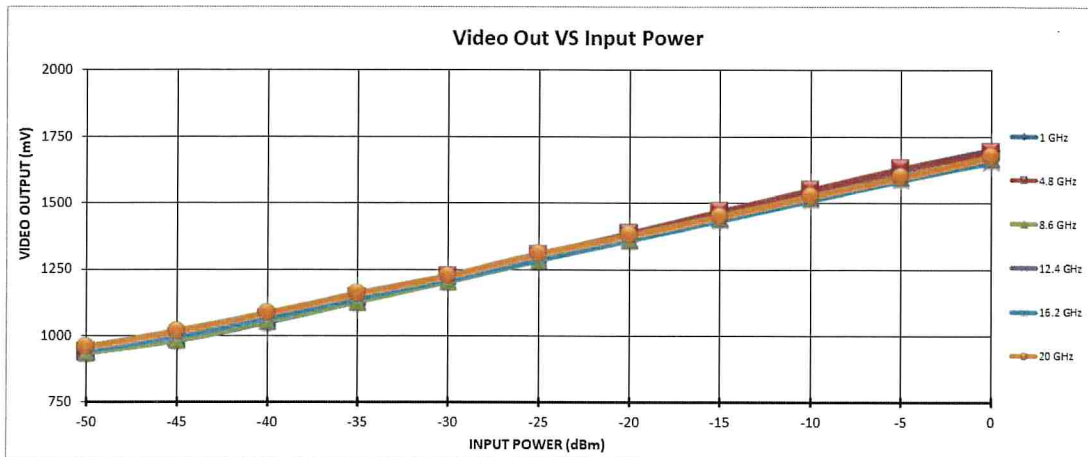
PL34073/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34073 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	1694.3	15.8	937	983	1051	1130	1210	1294	1375	1460	1542	1625	1697	1.9	
			31	-2	-13	-13	-12	-6	-4	2	5	10	3		
4.8 GHz	1697.9	15.7	938	987	1060	1141	1221	1304	1384	1467	1548	1628	1692	1.5	
			23	-6	-11	-9	-7	-2	-1	4	7	8	-6		
8.6 GHz	1667.6	15.1	936	984	1054	1129	1204	1285	1361	1443	1521	1600	1669	1.6	
			24	-3	-9	-9	-10	-5	-4	2	5	8	1		
12.4 GHz	1660.3	14.5	948	1003	1074	1148	1221	1295	1369	1445	1521	1596	1653	0.9	
			13	-4	-6	-4	-4	-3	-1	2	6	8	-7		
16.2 GHz	1652.9	14.5	945	999	1067	1142	1211	1287	1362	1434	1511	1585	1656	1.1	
			16	-2	-7	-4	-7	-4	-1	-2	3	5	3		
20 GHz	1665.4	14.4	957	1016	1084	1157	1224	1306	1375	1447	1523	1594	1671	0.9	
			13	-1	-5	-4	-9	1	-2	-2	2	1	6		
Average Slope (mV/dB)	15.0		0.7	1.1	1.1	0.9	0.7	0.7	0.8	1.1	1.2	1.4	1.5	Flatness: ± 1.5 dB	





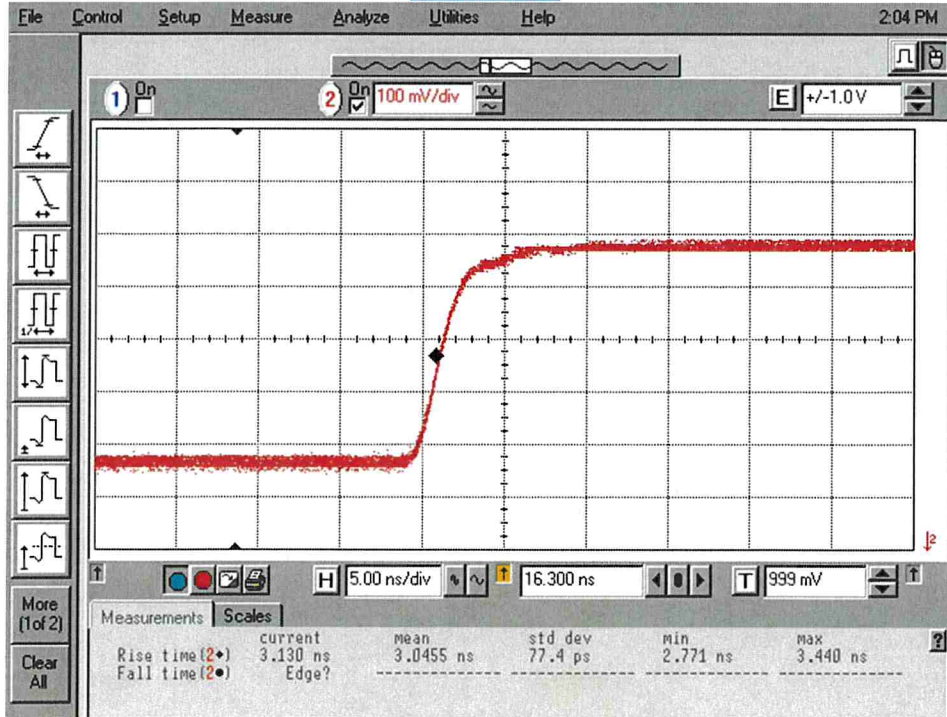
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VSWR Plot



Rise Time

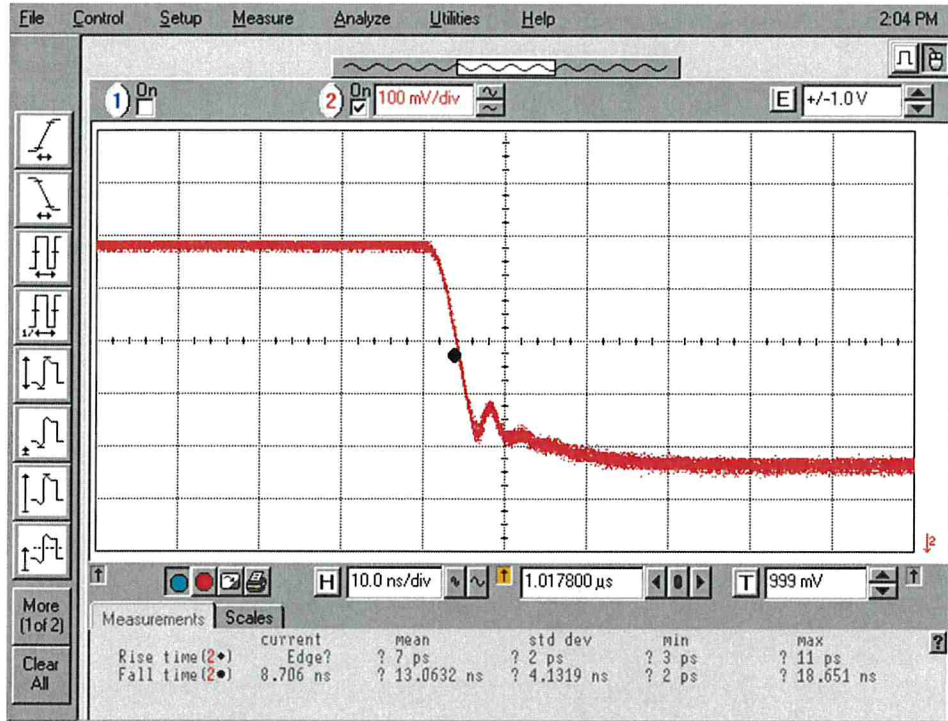




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Fall/Recovery Time



TSS Plot

