



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

PL34064/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34064/2139

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	±1.4 dB		
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±1.6 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	3.6:1		
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	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	7.0 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	-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

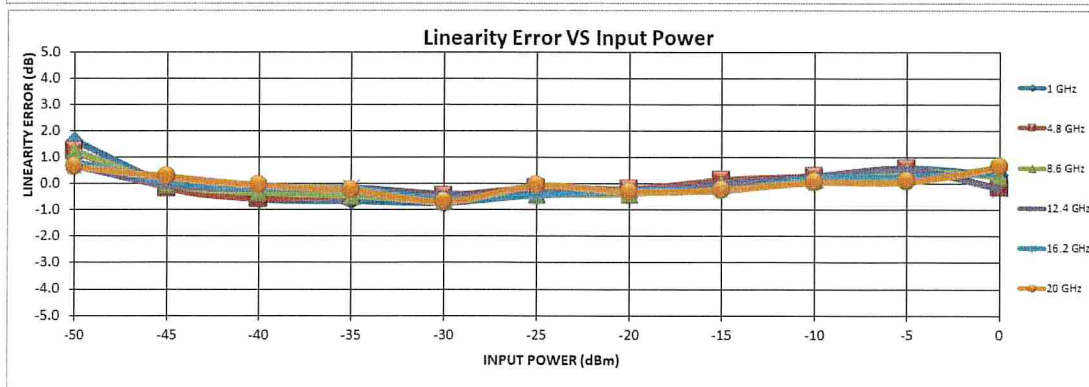
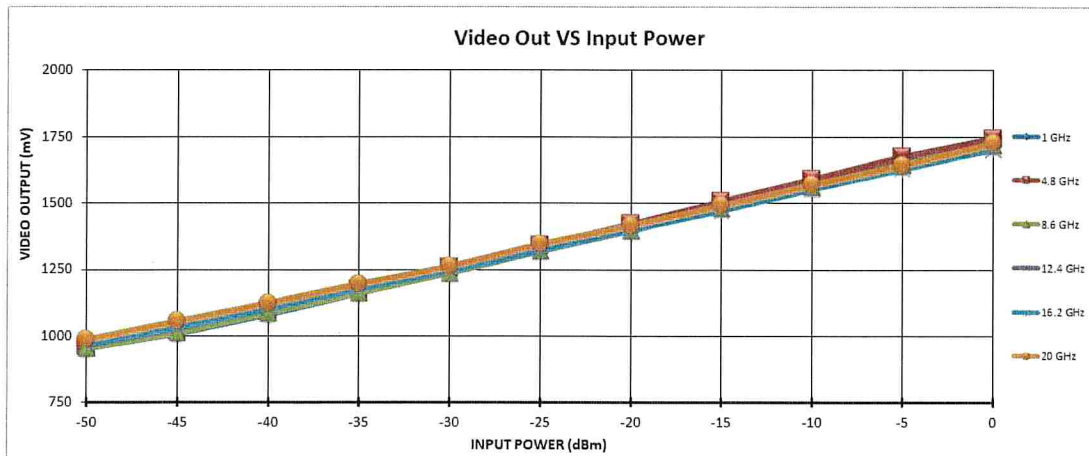
PL34064/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34064 Flash
Test Temp: +25°C

Log Transfer @ 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	INTERCEPT (mV)	1740.7	956	1011	1082	1162	1242	1328	1410	1497	1583	1669	1746	Measured Value (mV)
	SLOPE (mV/dB)	16.2	27	0	-10	-11	-12	-7	-6	0	5	9	6	Error (mV)
4.8 GHz	INTERCEPT (mV)	1744.5	959	1017	1091	1173	1254	1339	1419	1505	1588	1673	1742	Measured Value (mV)
	SLOPE (mV/dB)	16.1	20	-3	-9	-8	-7	-3	-3	2	5	9	-3	Error (mV)
8.6 GHz	INTERCEPT (mV)	1715.5	956	1014	1087	1163	1238	1320	1398	1482	1563	1645	1720	Measured Value (mV)
	SLOPE (mV/dB)	15.6	20	0	-5	-7	-10	-6	-6	0	3	7	4	Error (mV)
12.4 GHz	INTERCEPT (mV)	1704.4	968	1032	1105	1180	1251	1326	1402	1481	1559	1638	1702	Measured Value (mV)
	SLOPE (mV/dB)	14.9	10	-1	-2	-2	-6	-5	-4	0	4	8	-2	Error (mV)
16.2 GHz	INTERCEPT (mV)	1699.5	969	1033	1103	1177	1245	1322	1399	1473	1554	1629	1706	Measured Value (mV)
	SLOPE (mV/dB)	14.9	12	2	-2	-3	-9	-6	-3	-4	3	4	7	Error (mV)
20 GHz	INTERCEPT (mV)	1712.6	985	1053	1122	1193	1260	1343	1413	1488	1566	1640	1722	Measured Value (mV)
	SLOPE (mV/dB)	14.7	9	4	-1	-4	-10	-1	-5	-4	1	1	9	Error (mV)
Average Slope (mV/dB)	15.4	0.64	0.25	-0.07	-0.25	-0.70	-0.07	-0.33	-0.24	0.05	0.07	0.64	0.7	Flatness: ± 1.4 dB





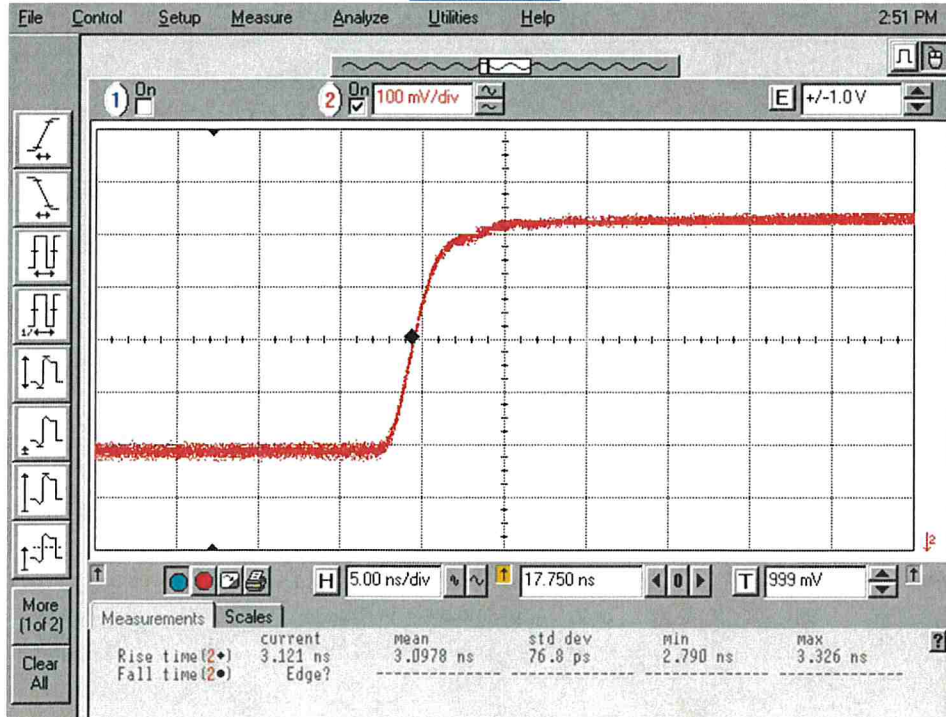
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VSWR Plot



Rise Time

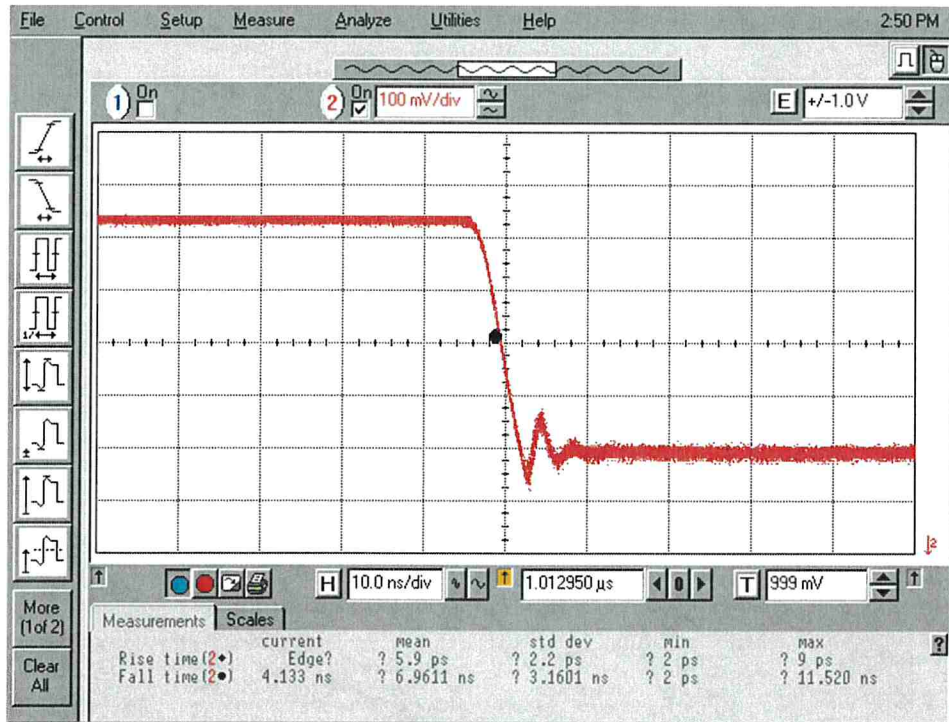




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Fall/Recovery Time



TSS Plot

