



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

PL34066/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34066/2139

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	±2.0 dB Max ±1.2 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	1.0 V to 1.7 V		
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.2 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.2 ns		
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	6.0 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	-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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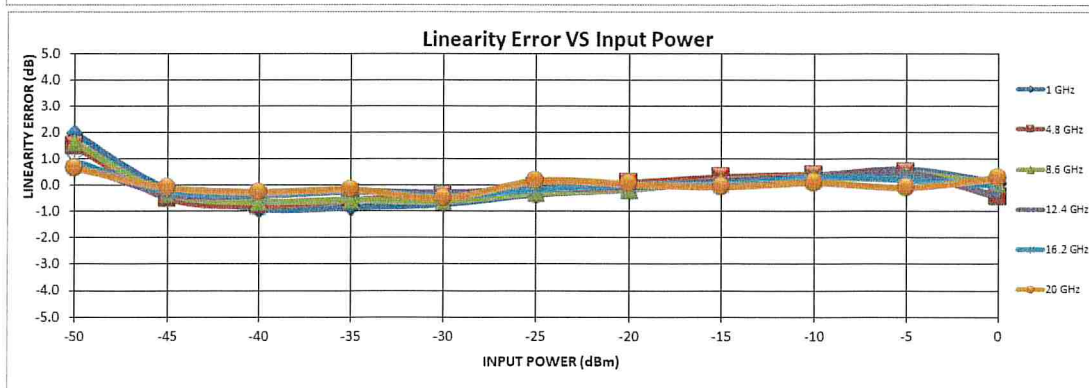
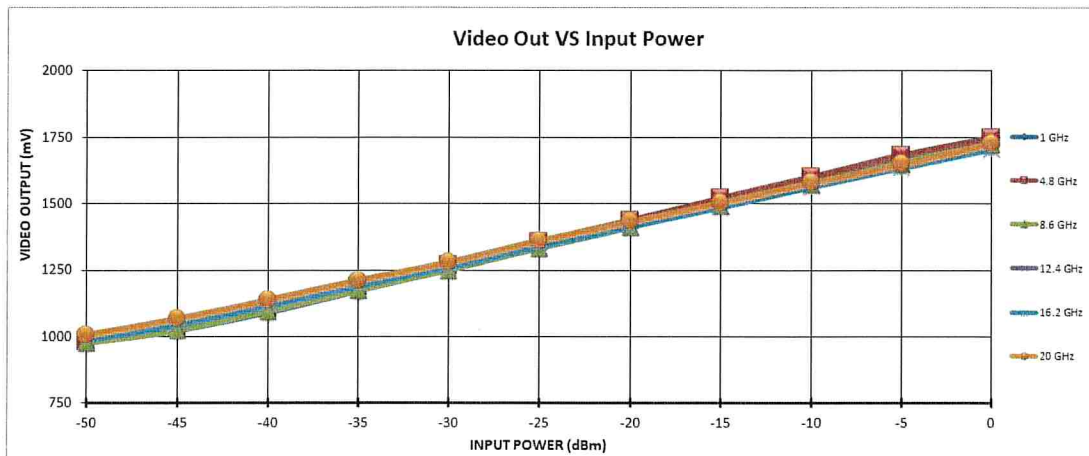
PL34066/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34066 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	1746.5	16.0	978	1024	1092	1173	1255	1341	1424	1509	1592	1676	1748	2.0	2.0
			31	-3	-15	-14	-12	-6	-3	2	5	9	2		
4.8 GHz	1751.9	15.9	980	1028	1103	1186	1268	1353	1435	1518	1599	1680	1745	1.5	1.5
			24	-8	-12	-9	-7	-1	1	5	6	8	-7		
8.6 GHz	1721.1	15.4	977	1024	1096	1174	1250	1332	1411	1493	1572	1651	1722	1.6	1.6
			25	-5	-10	-9	-10	-5	-2	3	5	7	1		
12.4 GHz	1711.9	14.8	987	1043	1116	1192	1265	1341	1416	1493	1569	1645	1706	0.9	0.9
			13	-5	-6	-3	-4	-2	-1	2	5	7	-6		
16.2 GHz	1707.1	14.6	989	1046	1117	1192	1262	1339	1415	1488	1565	1637	1707	0.9	0.9
			13	-3	-5	-3	-6	-3	0	0	4	3	0		
20 GHz	1720	14.5	1003	1065	1135	1209	1277	1359	1430	1501	1576	1646	1724	0.6	0.6
			9	-1	-4	-3	-7	2	1	-1	1	-1	4		
Average Slope (mV/dB)	16.2		0.9	1.3	1.4	1.2	0.9	0.9	0.8	1	1.1	1.4	1.4	Flatness: ± 1.4 dB	





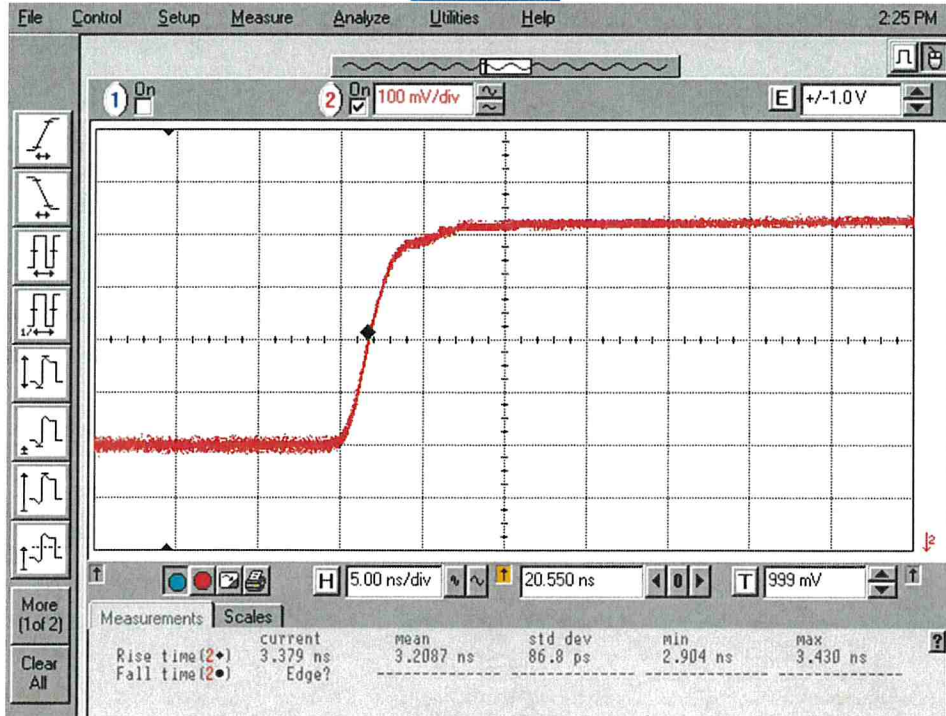
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VSWR Plot



Rise Time

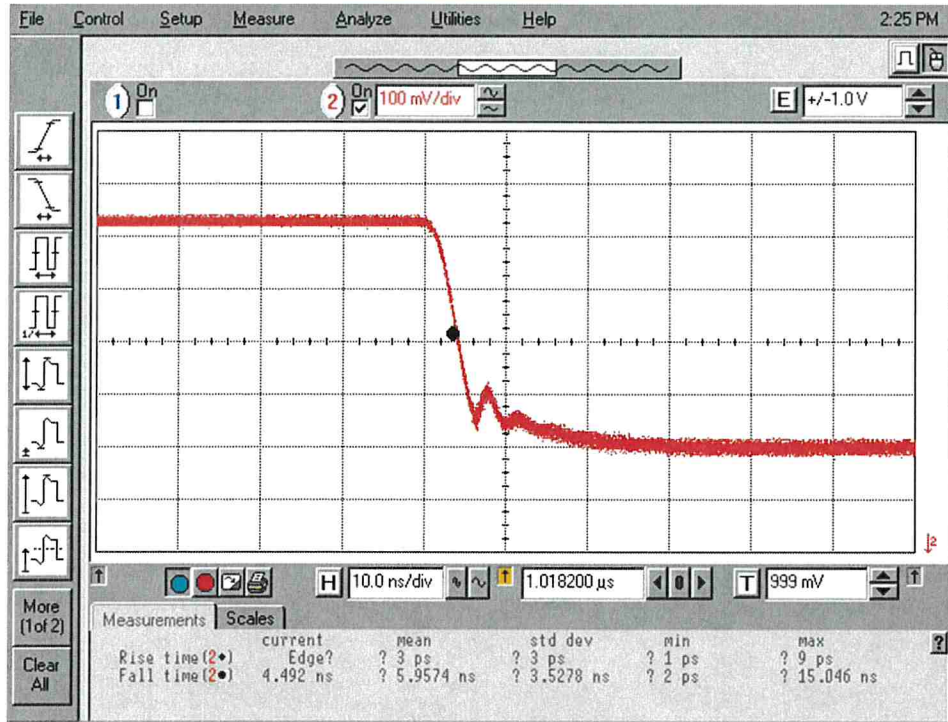




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Fall/Recovery Time



TSS Plot

