



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

PL34071/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34071/2139

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	±1.5 dB		
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±2.4 dB Max ±1.7 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	15.0 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.3 ns		
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	13.2 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	-52 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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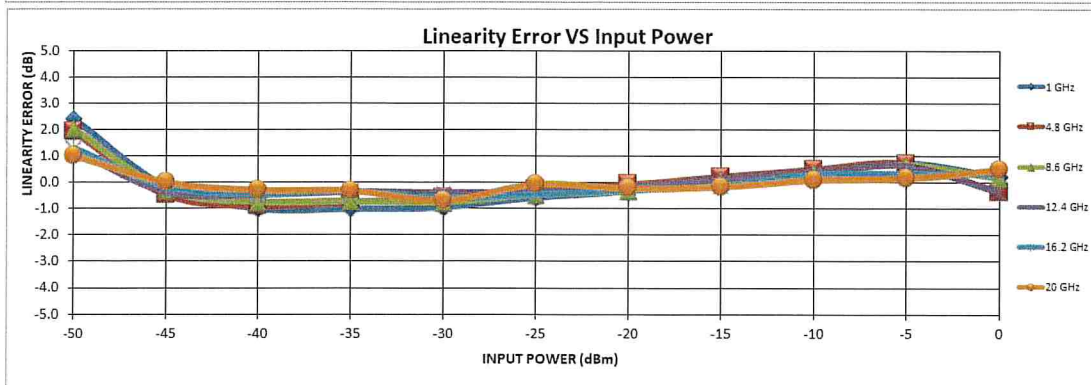
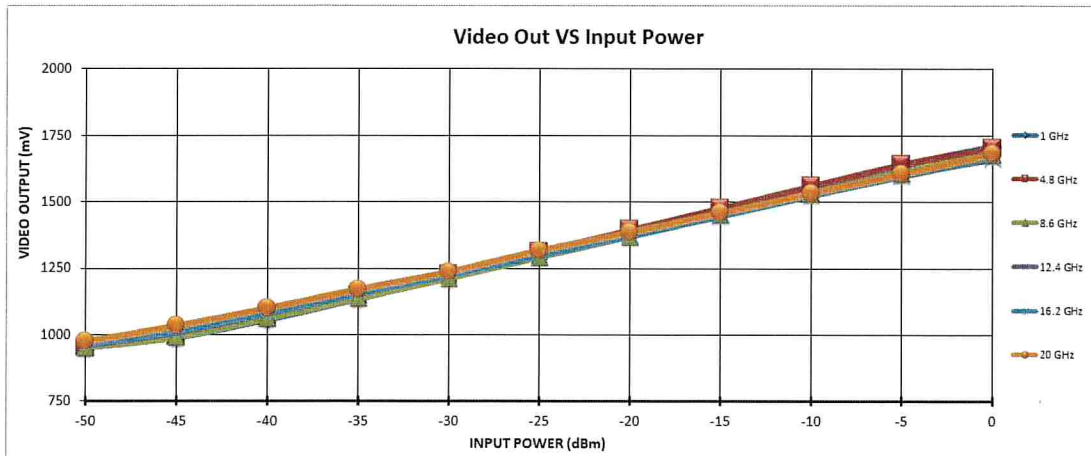
PL34071/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34071 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	1704.3	15.8	952	990	1056	1135	1215	1300	1383	1470	1553	1637	1708	2.4	2.4
			38	-3	-16	-16	-15	-9	-5	3	7	12	4		
			2.42	-0.17	-1.00	-1.00	-0.94	-0.57	-0.32	0.18	0.43	0.74	0.23		
4.8 GHz	1708.4	15.7	953	994	1066	1147	1228	1312	1393	1476	1559	1641	1703	1.9	1.9
			30	-7	-14	-12	-9	-4	-1	3	8	11	-5		
			1.92	-0.47	-0.89	-0.73	-0.58	-0.23	-0.08	0.21	0.49	0.71	-0.34		
8.6 GHz	1677.5	15.1	952	992	1061	1137	1212	1292	1370	1452	1532	1612	1680	2.0	2.0
			31	-5	-11	-11	-12	-7	-5	1	6	10	3		
			2.05	-0.31	-0.75	-0.73	-0.77	-0.48	-0.33	0.09	0.38	0.67	0.17		
12.4 GHz	1667	14.5	961	1010	1081	1155	1227	1300	1375	1452	1528	1604	1662	1.2	1.2
			18	-5	-7	-5	-6	-5	-2	2	6	9	-5		
			1.24	-0.37	-0.47	-0.36	-0.39	-0.35	-0.17	0.15	0.40	0.65	-0.35		
16.2 GHz	1662	14.4	963	1014	1082	1155	1223	1297	1371	1445	1523	1595	1667	1.3	1.3
			19	-2	-6	-5	-8	-6	-4	-2	5	5	5		
			1.30	-0.15	-0.41	-0.32	-0.59	-0.43	-0.28	-0.12	0.31	0.33	0.35		
20 GHz	1672	14.2	974	1031	1098	1169	1235	1315	1384	1456	1531	1603	1679	1.0	1.0
			14	0	-4	-4	-10	-1	-3	-2	1	2	7		
			1.00	0.00	-0.30	-0.31	-0.68	-0.06	-0.22	-0.17	0.10	0.15	0.49		
Average Slope (mV/dB)	15.0		0.7	1.4	1.4	1.1	0.8	0.8	0.8	1	1.2	1.5	1.5	Flatness: ±1.5 dB	





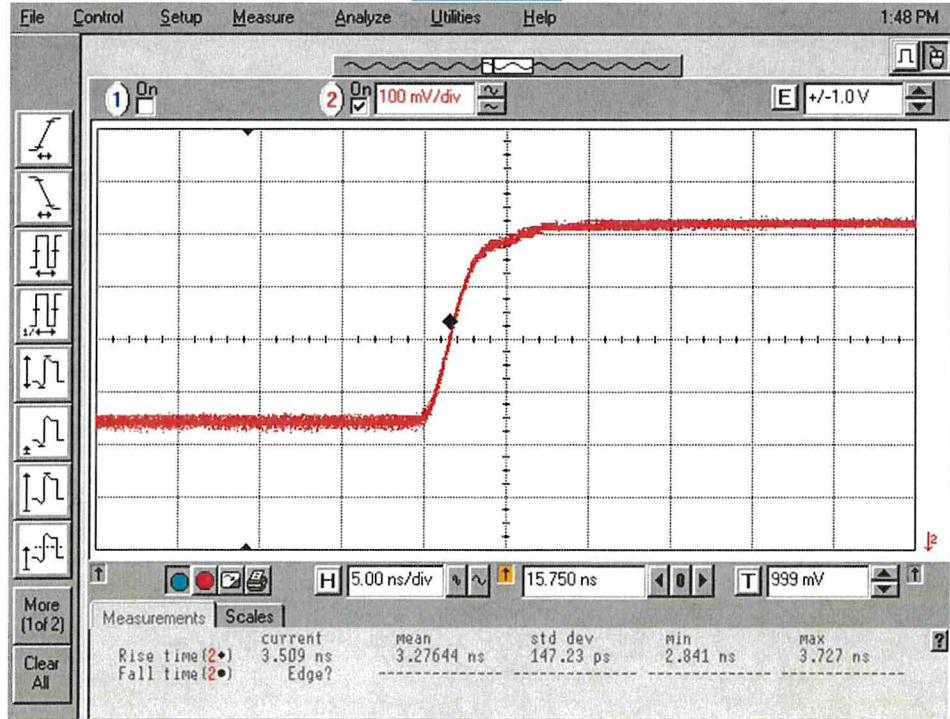
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VSWR Plot



Rise Time

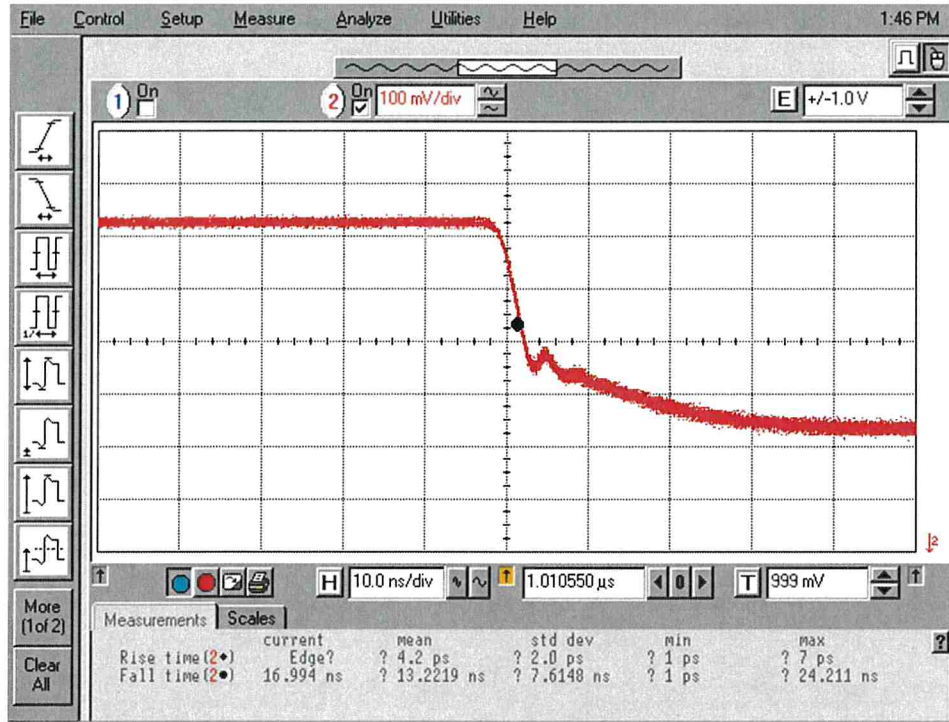




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Fall/Recovery Time



TSS Plot

