



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

PL34068/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34068/2139

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	±1.8 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	14.5 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	4.1 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: _____

PMI
QA3



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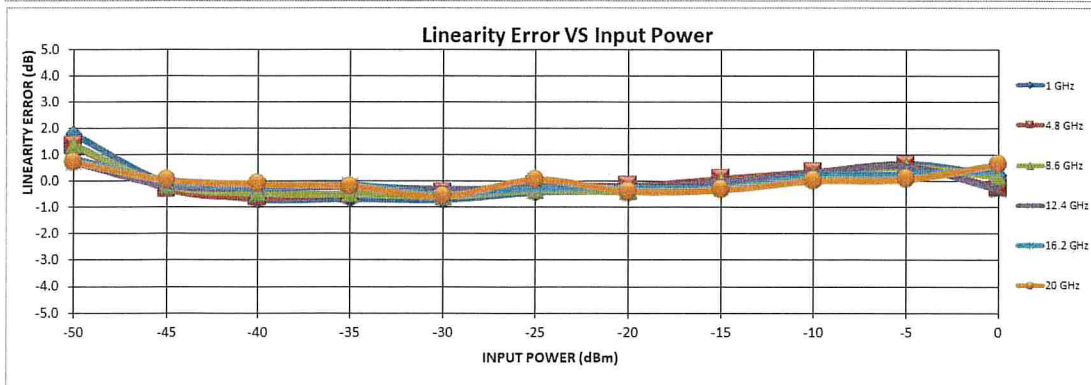
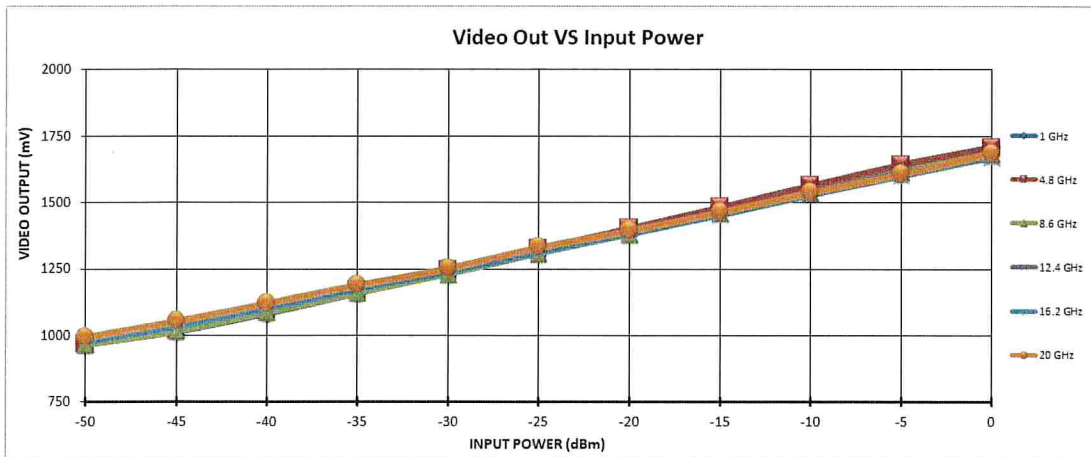
PL34068/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34068 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)	Measured Value (mV)	Error (mV)
1 GHz	1704.5	15.3	966	1014	1081	1158	1234	1315	1393	1475	1556	1638	1708			
			27	-1	-11	-10	-11	-7	-5	0	5	10	3		1.8	
			1.78	-0.09	-0.71	-0.68	-0.72	-0.43	-0.34	0.01	0.30	0.66	0.23			
4.8 GHz	1707.7	15.2	968	1019	1090	1168	1245	1325	1401	1481	1561	1641	1704			
			21	-4	-9	-7	-7	-3	-3	1	5	9	-4		1.4	
			1.35	-0.29	-0.62	-0.49	-0.43	-0.17	-0.17	0.09	0.35	0.61	-0.24			
8.6 GHz	1680.4	14.7	966	1017	1086	1159	1231	1308	1381	1460	1537	1615	1683			
			20	-2	-7	-7	-9	-5	-5	0	4	8	3		1.4	
			1.39	-0.14	-0.45	-0.48	-0.58	-0.34	-0.37	0.00	0.24	0.55	0.18			
12.4 GHz	1671.1	14.1	978	1036	1105	1176	1245	1316	1387	1460	1535	1609	1667			
			10	-2	-3	-3	-4	-3	-3	0	5	8	-4		0.7	
			0.73	-0.15	-0.24	-0.20	-0.29	-0.25	-0.20	-0.01	0.32	0.58	-0.29			
16.2 GHz	1666.4	14.0	979	1037	1104	1175	1240	1313	1383	1453	1529	1600	1672			
			12	0	-3	-2	-7	-4	-4	-4	2	4	6		0.8	
			0.84	-0.01	-0.22	-0.14	-0.49	-0.27	-0.27	-0.26	0.17	0.25	0.40			
20 GHz	1676.1	13.8	994	1054	1121	1189	1253	1331	1394	1464	1538	1608	1685			
			10	1	-1	-3	-8	1	-5	-5	0	1	9		0.7	
			0.72	0.05	-0.11	-0.19	-0.57	0.07	-0.38	-0.33	0.02	0.08	0.64			
Average Slope (mV/dB)	14.5		1	1.4	1.4	1.1	0.8	0.8	0.7	1	1.1	1.4	1.4	Flatness: ±1.4 dB		





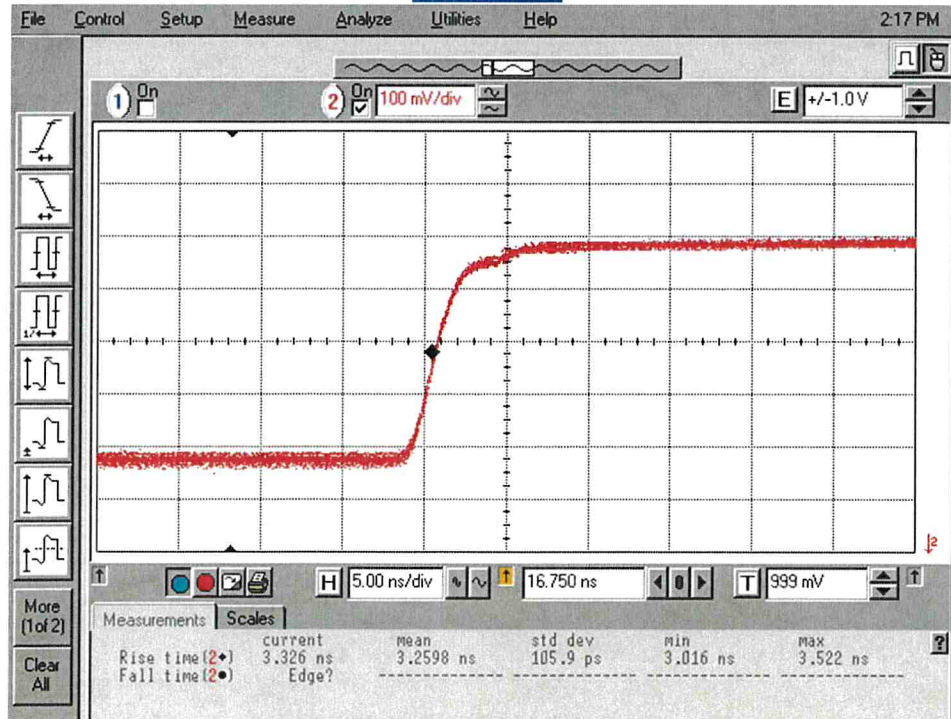
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VSWR Plot



Rise Time

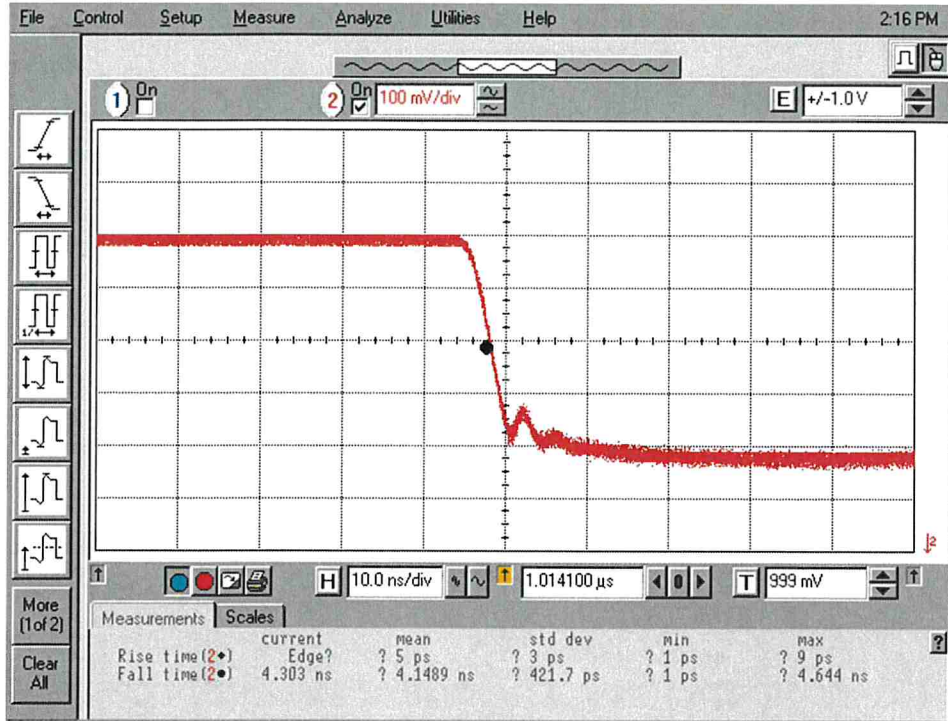




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Fall/Recovery Time



TSS Plot

