



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

PL34072/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34072/2139

Tested By: J Boze Sign: PMI
 QA/QC By: Name Sign: QAS
 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 QAS
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	±2.1 dB Max ±1.5 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	14.3 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	16.8 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	-53 dBm	
14	Power Supply	+12V @ 100mA Typ	90 mA	90 mA	PMI QAS

QA/QC Approval: *A Zimmerman* Date: 10-1-21



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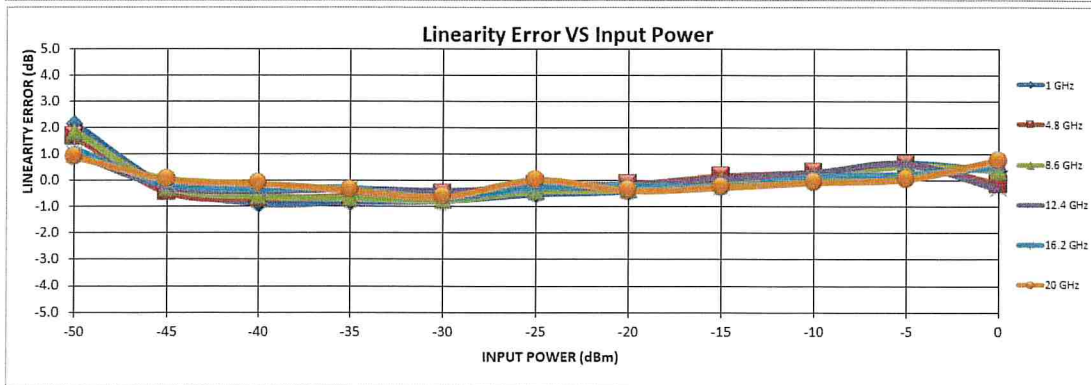
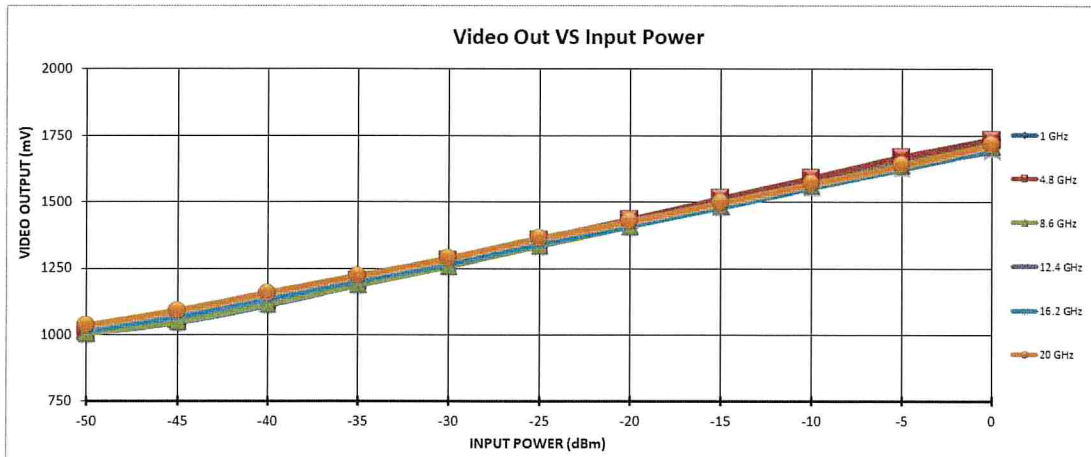
PL34072/2139

Log Transfer @ 25°C

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34072 Flash
Test Temp: +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	1727.4	15.0	1008	1048	1113	1189	1265	1344	1421	1503	1581	1662	1733			
			32	-3	-13	-12	-11	-8	-6	1	4	10	6			
			2.15	-0.19	-0.87	-0.81	-0.76	-0.50	-0.38	0.07	0.26	0.65	0.37			2.1
4.8 GHz	1731.9	14.9	1010	1053	1124	1200	1276	1356	1431	1510	1587	1666	1730			
			25	-7	-10	-9	-8	-2	-2	2	4	9	-2			
			1.67	-0.45	-0.69	-0.61	-0.52	-0.16	-0.14	0.14	0.30	0.59	-0.13			1.7
8.6 GHz	1702.3	14.4	1008	1050	1117	1188	1259	1336	1409	1486	1561	1638	1708			
			27	-3	-9	-10	-11	-6	-5	0	3	8	6			
			1.85	-0.24	-0.59	-0.67	-0.74	-0.40	-0.34	0.00	0.20	0.54	0.40			1.8
12.4 GHz	1696.1	13.8	1019	1071	1138	1208	1276	1347	1417	1490	1562	1636	1692			
			14	-3	-5	-4	-5	-4	-3	1	4	9	-4			
			1.01	-0.22	-0.38	-0.31	-0.39	-0.26	-0.19	0.09	0.30	0.65	-0.30			1.0
16.2 GHz	1690.7	13.8	1019	1070	1136	1205	1269	1343	1413	1481	1555	1625	1698			
			16	-2	-4	-4	-9	-4	-3	-3	2	3	7			
			1.18	-0.11	-0.31	-0.30	-0.65	-0.27	-0.18	-0.24	0.14	0.22	0.53			1.2
20 GHz	1703.6	13.7	1032	1089	1155	1220	1285	1362	1425	1495	1566	1636	1714			
			12	1	-2	-5	-8	0	-5	-3	-1	1	10			
			0.89	0.06	-0.12	-0.36	-0.61	0.02	-0.37	-0.25	-0.06	0.06	0.76			0.9
Average Slope (mV/dB)			14.3	0.8	1.4	1.5	1.1	0.9	0.9	0.8	1	1.1	1.4	1.4	Flatness: ± 1.5 dB	





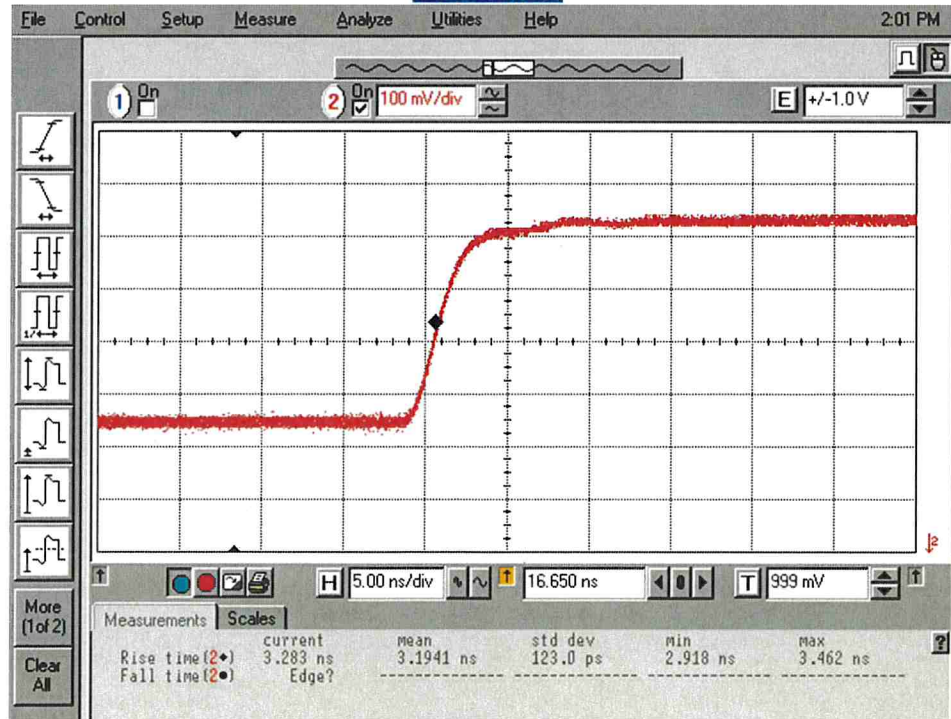
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VSWR Plot



Rise Time

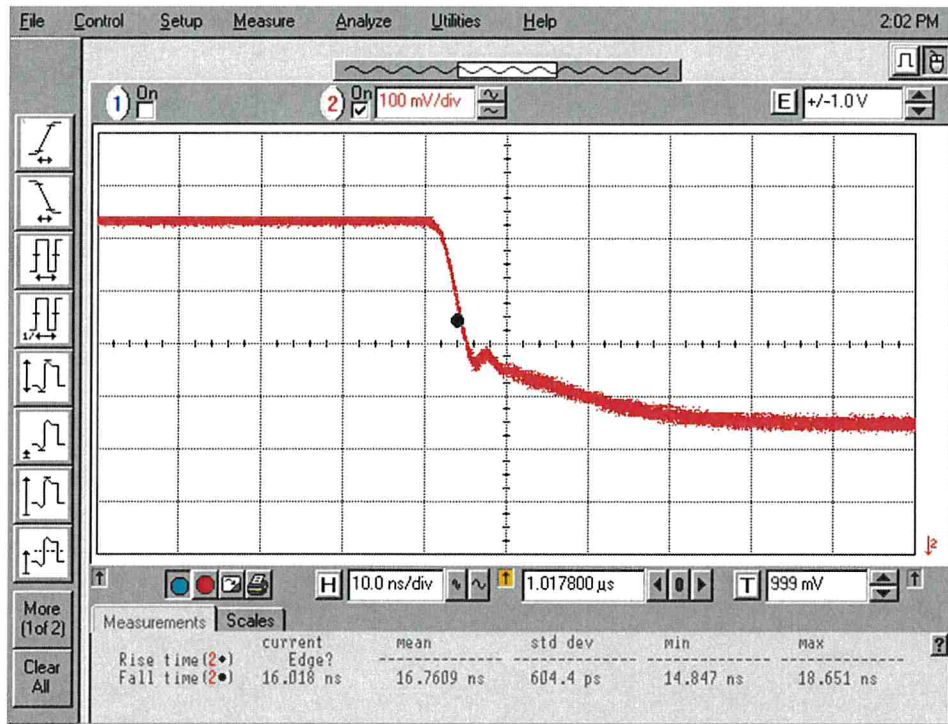




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Fall/Recovery Time



TSS Plot

