



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

PL34069/2139

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL34069/2139

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	±1.4 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±1.8 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	3.7:1	
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	2.2 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	4.5 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



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

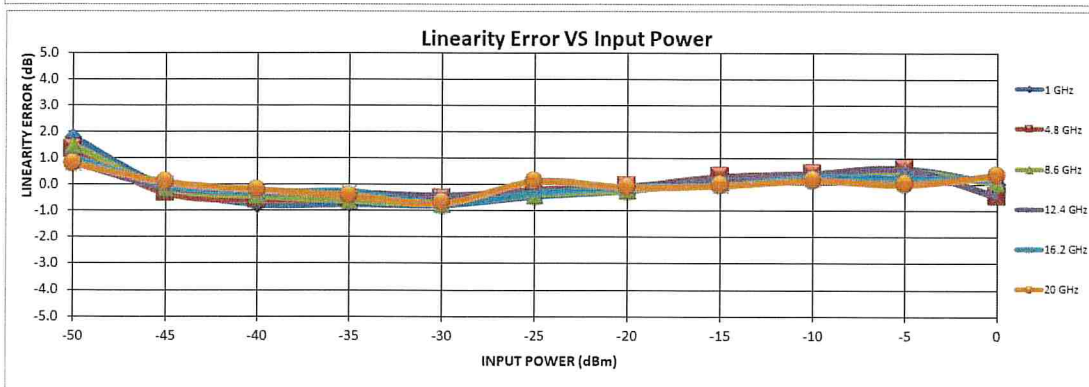
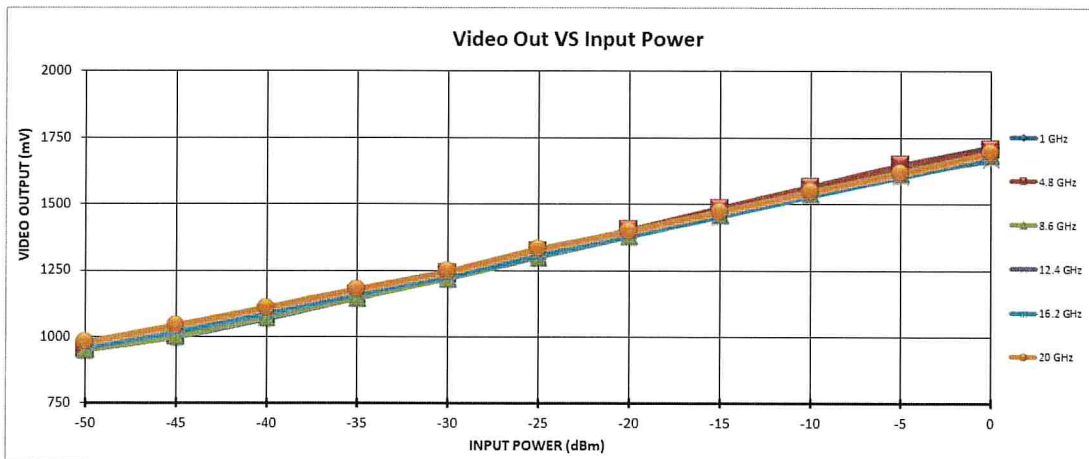
PL34069/2139

LOG TRANSFER VS FREQUENCY  
Model: SDLVA-1G20G-58-12-SFF  
Tested By: J. Boze  
Date: 10/01/21  
Serial No: PL34069 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	1710	15.7	952	1001	1069	1148	1226	1310	1392	1477	1559	1641	1711	Measured Value (mV)
			28	-1	-12	-12	-12	-7	-4	3	6	10	1	Error (mV)
			1.80	-0.09	-0.76	-0.74	-0.78	-0.44	-0.22	0.18	0.39	0.61	0.06	1.8
4.8 GHz	1713.8	15.6	953	1005	1079	1158	1236	1320	1400	1484	1564	1645	1707	Measured Value (mV)
			21	-5	-9	-9	-9	-3	-1	5	7	9	-7	Error (mV)
			1.35	-0.32	-0.59	-0.54	-0.55	-0.18	-0.06	0.31	0.42	0.60	-0.43	1.4
8.6 GHz	1684.9	15.1	951	1002	1073	1146	1220	1301	1379	1460	1539	1617	1686	Measured Value (mV)
			22	-2	-7	-9	-11	-6	-3	2	5	8	-1	Error (mV)
			1.48	-0.14	-0.45	-0.63	-0.73	-0.38	-0.22	0.13	0.35	0.51	0.07	1.5
12.4 GHz	1675.4	14.5	962	1021	1091	1163	1234	1309	1384	1461	1536	1611	1669	Measured Value (mV)
			12	-2	-4	-5	-6	-4	-1	3	6	8	-6	Error (mV)
			0.81	-0.12	-0.30	-0.33	-0.44	-0.26	-0.09	0.22	0.39	0.56	-0.44	0.8
16.2 GHz	1672.8	14.5	963	1021	1089	1162	1228	1306	1382	1455	1532	1604	1676	Measured Value (mV)
			14	0	-4	-4	-10	-5	-1	-1	4	4	3	Error (mV)
			0.99	0.00	-0.31	-0.27	-0.71	-0.33	-0.08	-0.04	0.28	0.25	0.22	1.0
20 GHz	1686	14.4	976	1038	1106	1175	1243	1327	1396	1469	1544	1614	1691	Measured Value (mV)
			11	1	-3	-6	-10	2	-1	-1	2	0	5	Error (mV)
			0.78	0.08	-0.21	-0.42	-0.71	0.11	-0.10	-0.04	0.16	0.01	0.35	0.8
Average Slope (mV/dB)	15.0		0.8	1.2	1.2	1	0.8	0.9	0.7	1	1.1	1.4	1.4	Flatness: ± 1.4 dB







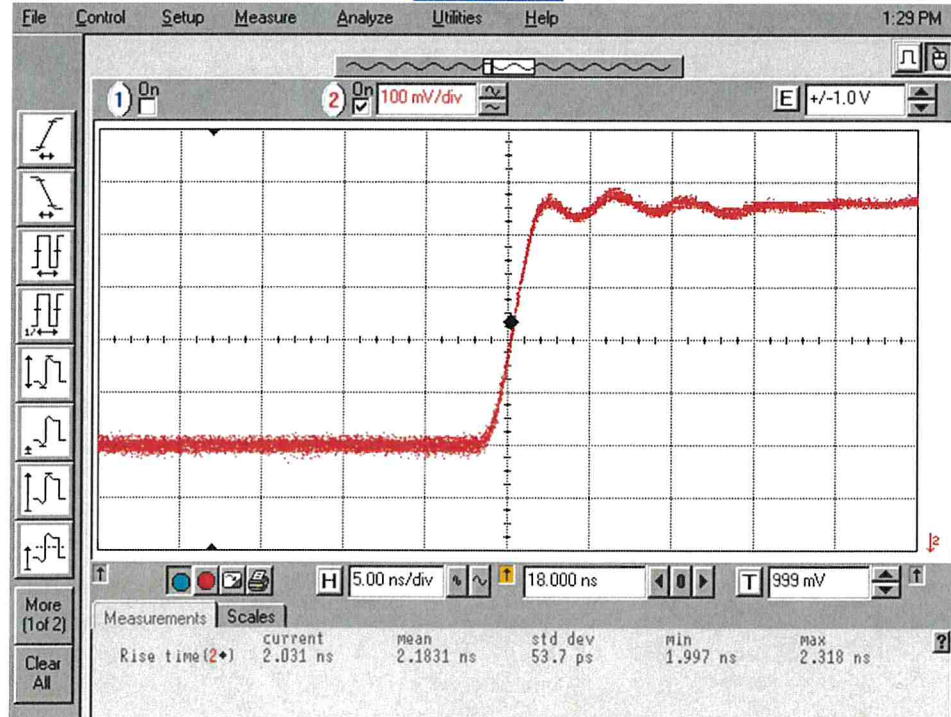
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## VSWR Plot



## Rise Time





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

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## Fall/Recovery Time



## TSS Plot

