



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

PL34062/2139

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL34062/2139

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	±1.6 dB		
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±2.1 dB Max ±1.3 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	0.9 V to 1.7 V		
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.1 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	8.4 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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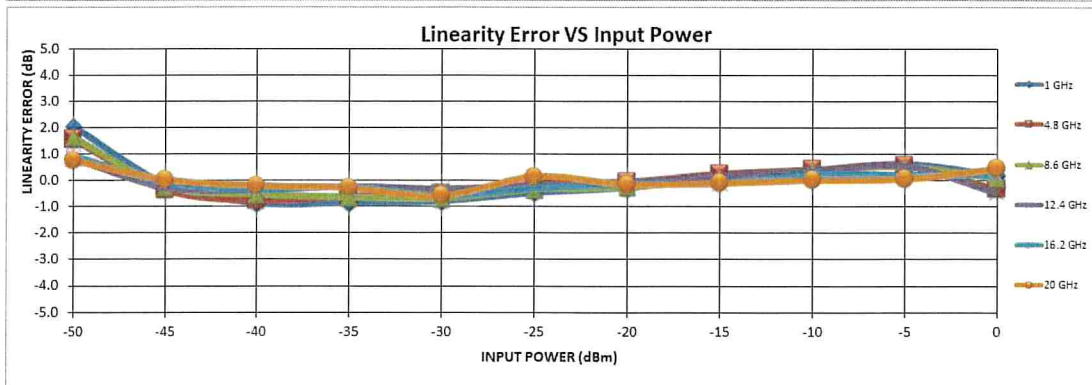
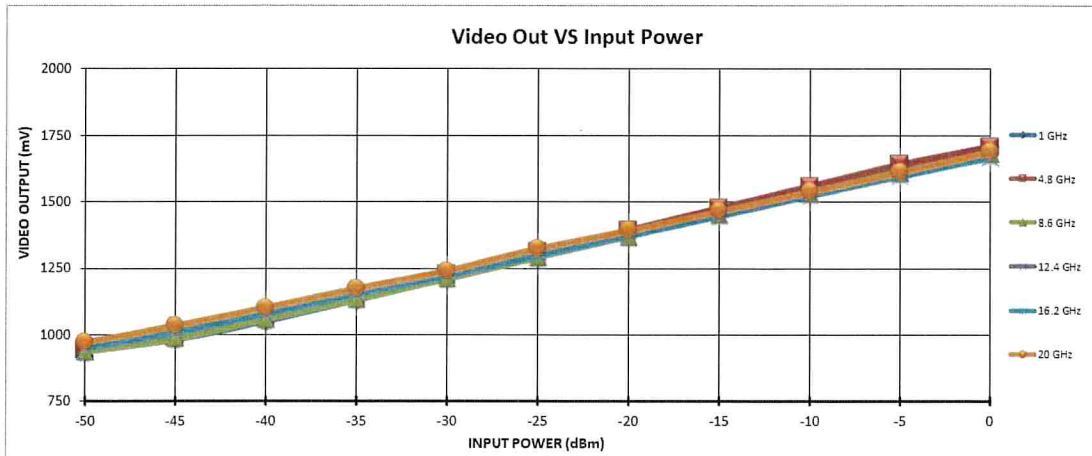
PL34062/2139

## Log Transfer @ 25°C

LOG TRANSFER VS FREQUENCY  
Model: SDLVA-1G20G-58-12-SFF  
Tested By: J. Boze  
Date: 10/01/21  
Serial No: PL34062 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	1704.7	16.0	939	984	1052	1132	1213	1298	1381	1467	1551	1635	1708			
			33	-2	-14	-14	-13	-7	-4	2	6	10	3		2.1	
4.8 GHz	1709.3	15.9	940	989	1062	1144	1225	1310	1391	1475	1557	1639	1704			
			25	-6	-12	-10	-8	-2	-1	4	6	9	-5		1.5	
8.6 GHz	1680.8	15.3	939	987	1059	1134	1210	1292	1370	1453	1533	1612	1682			
			25	-4	-8	-10	-11	-5	-4	2	6	8	1		1.6	
12.4 GHz	1671	14.6	951	1008	1080	1155	1227	1302	1377	1454	1530	1606	1664			
			12	-4	-5	-3	-5	-3	-1	3	5	8	-7		0.8	
16.2 GHz	1666.6	14.5	953	1011	1080	1154	1222	1299	1374	1447	1525	1597	1670			
			14	-1	-5	-3	-8	-4	-2	-1	4	3	3		0.9	
20 GHz	1681.7	14.5	969	1031	1100	1171	1239	1322	1390	1463	1537	1610	1688			
			11	0	-3	-4	-9	2	-2	-2	0	1	6		0.7	
Average Slope (mV/dB)	15.1		1	1.6	1.6	1.3	1	1	0.7	0.9	1.1	1.4	1.5	Fitness: ± 1.6 dB		







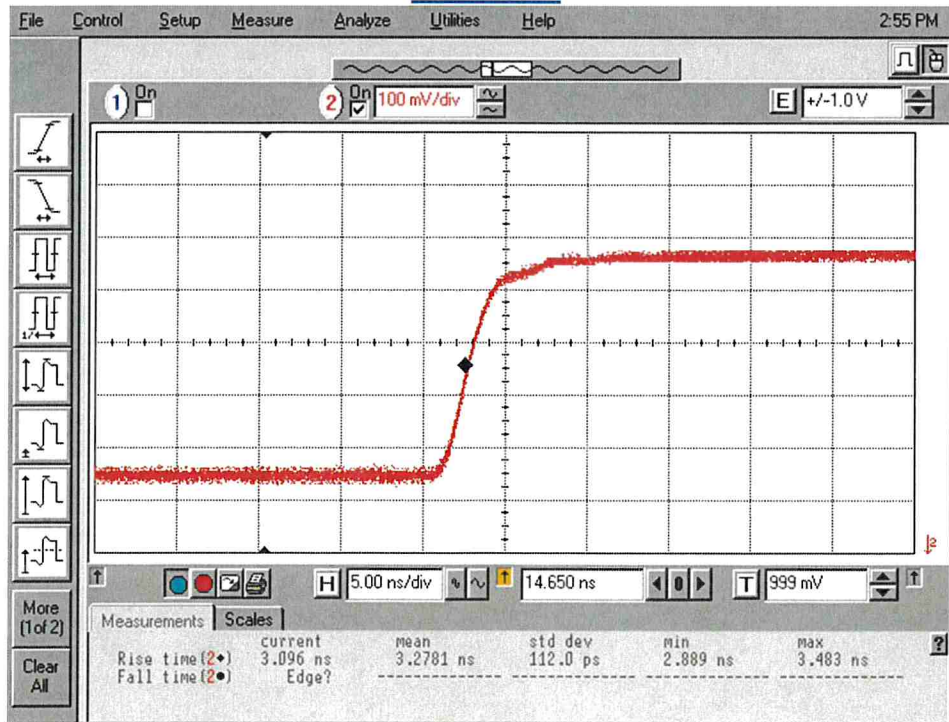
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PL34062/2139

## VSWR Plot



## Rise Time

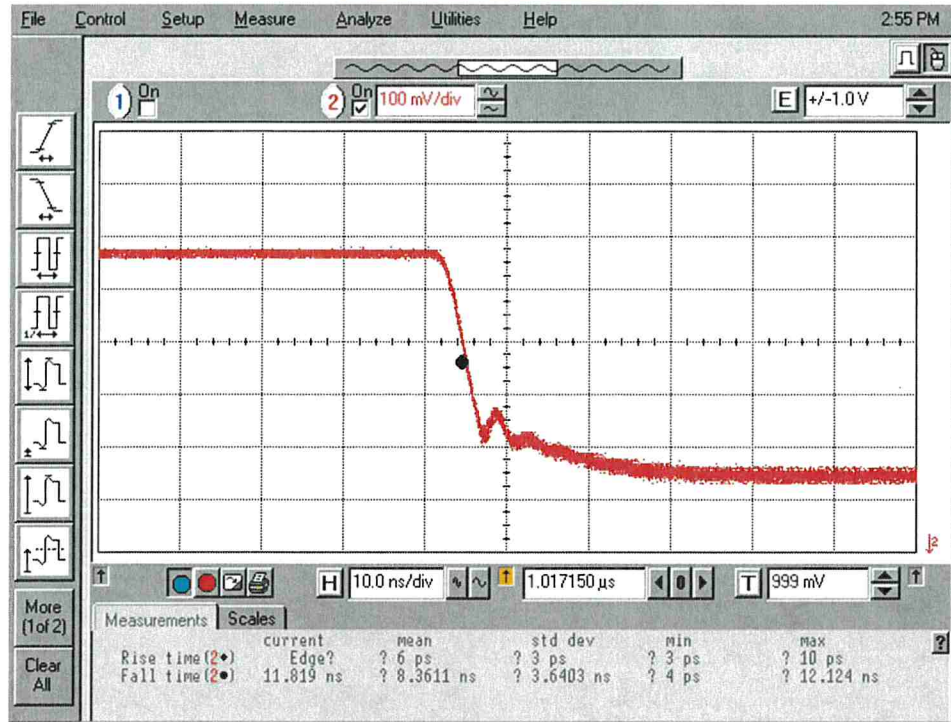




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**Fall/Recovery Time**



**TSS Plot**

