



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

PL34065/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34065/2139

Tested By: J Boze Sign: PMI QA3
 QA/QC By: Name Sign: _____
 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	PMI QA3	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±2.0 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	3.7:1		
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	14.8 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.4 ns		
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	10.0 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	-55 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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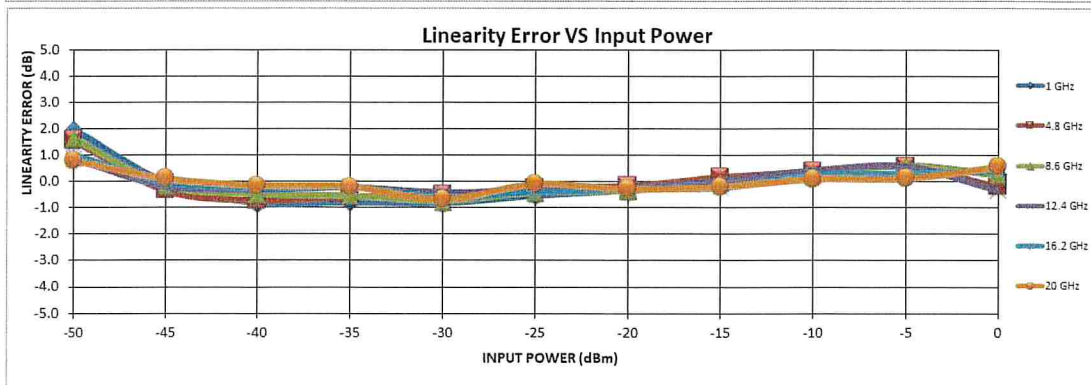
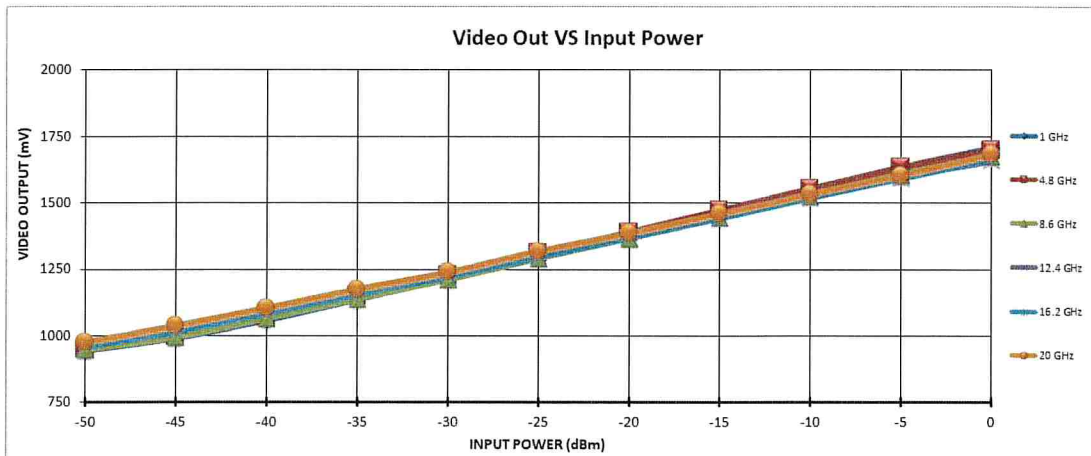
PL34065/2139

Log Transfer @ 25°C

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34065 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	1699.9	15.7	946	993	1059	1138	1216	1299	1381	1466	1549	1631	1704			
			31	-1	-13	-12	-13	-8	-5	2	6	10	4		2.0	
4.8 GHz	1701.8	15.6	948	996	1068	1148	1227	1309	1388	1471	1552	1633	1699			
			25	-5	-11	-9	-8	-4	-2	3	6	9	-3		1.6	
8.6 GHz	1672.2	15.0	947	995	1065	1139	1211	1291	1367	1447	1527	1606	1676			
			25	-2	-7	-8	-11	-6	-5	0	5	9	4		1.6	
12.4 GHz	1663.5	14.4	958	1015	1085	1158	1227	1300	1373	1449	1526	1600	1659			
			12	-2	-4	-3	-6	-5	-3	1	6	8	-4		0.9	
16.2 GHz	1658.2	14.3	959	1016	1084	1156	1222	1296	1369	1441	1519	1591	1664			
			14	0	-4	-3	-8	-6	-4	-3	3	4	6		1.0	
20 GHz	1670.1	14.1	974	1035	1102	1172	1236	1316	1383	1455	1530	1601	1678			
			11	1	-2	-3	-10	-1	-4	-3	1	2	8		0.8	
Average Slope (mV/dB)			0.9	1.4	1.4	1.1	0.8	0.8	0.7	1	1.1	1.4	1.5	Flatness: ± 1.5 dB		





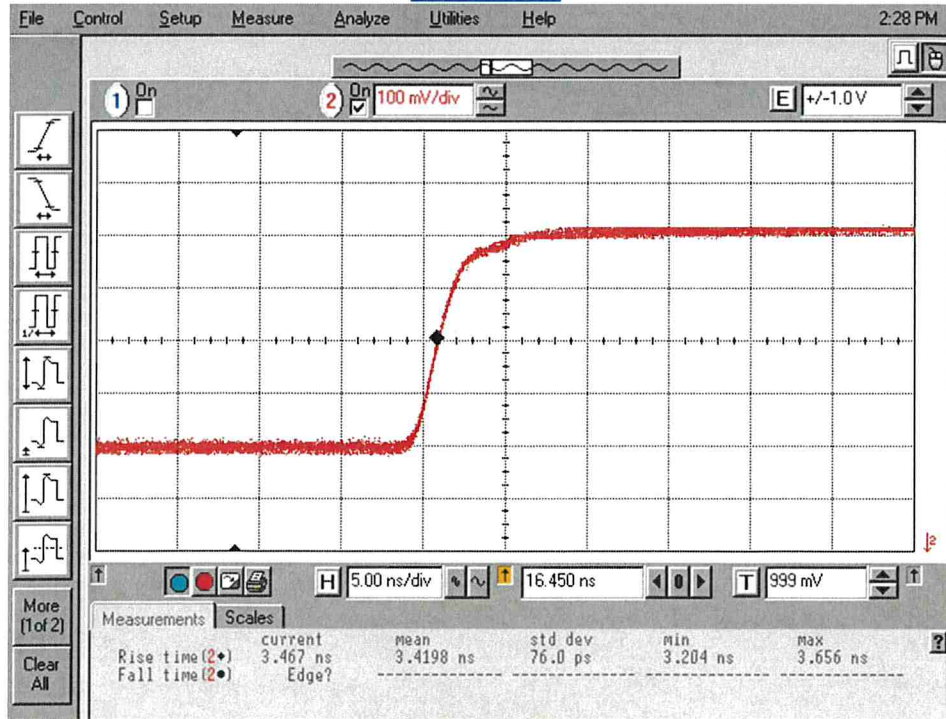
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PL34065/2139

VSWR Plot



Rise Time

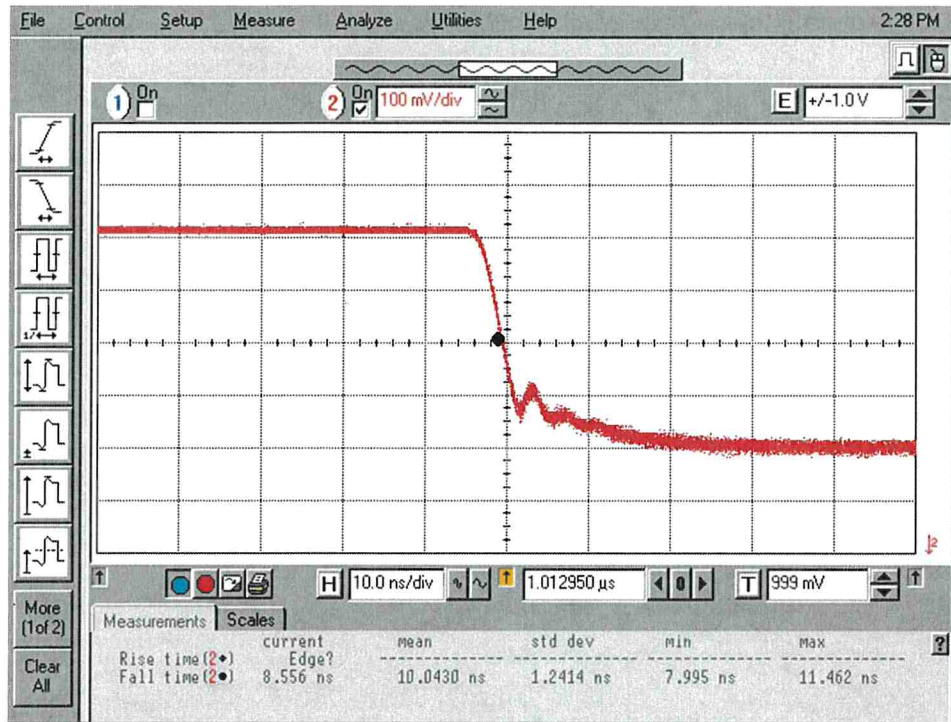




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Fall/Recovery Time



TSS Plot

