



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

PL34063/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34063/2139

Tested By: J Boze Sign: *J Boze*
 QA/QC By: Name Sign: *QA3*
 Temperature: + 25 °C
 Date: 10/01/2021
 Drawing No: 2 7 1260 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	<i>PMI QA3</i>
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	±2.0 dB Max ±1.4 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	1.0 V to 1.8 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.9 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.0 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	4.2 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	<i>PMI QA3</i>

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



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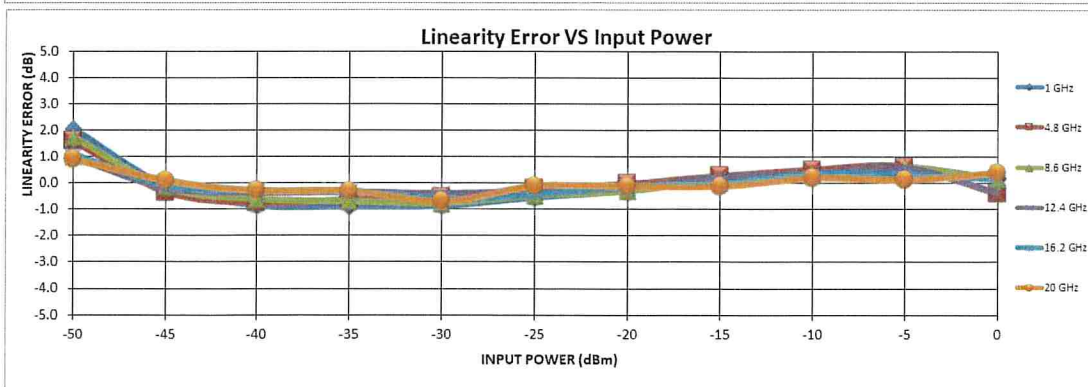
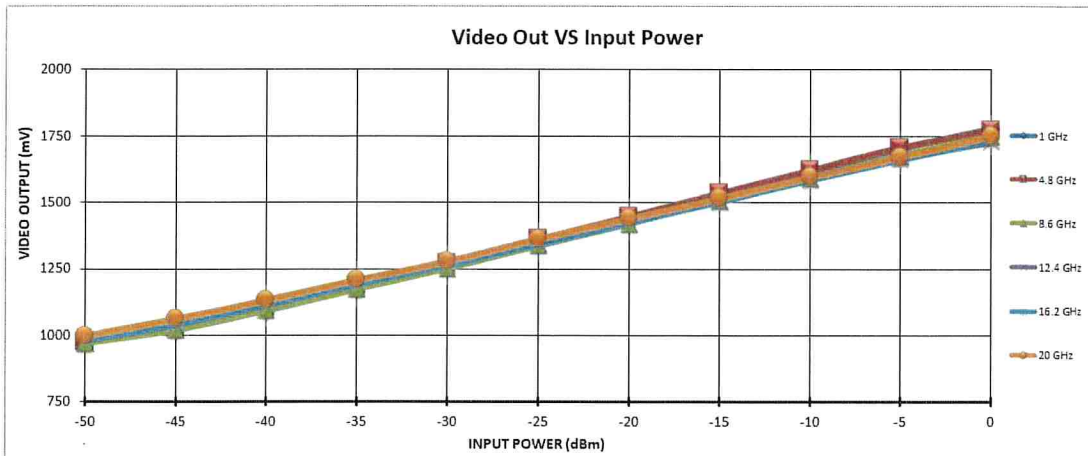
PL34063/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34063 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	INTERCEPT (mV)	1775	973	1021	1092	1175	1259	1348	1436	1527	1615	1702	1778	Measured Value (mV)
	SLOPE (mV/dB)	16.7	34	-1	-14	-15	-14	-9	-5	3	7	11	3	Error (mV)
			2.05	-0.08	-0.84	-0.88	-0.85	-0.53	-0.27	0.17	0.43	0.63	0.18	2.0
4.8 GHz	INTERCEPT (mV)	1778.7	975	1026	1102	1187	1272	1360	1446	1534	1621	1706	1772	Measured Value (mV)
	SLOPE (mV/dB)	16.6	26	-6	-13	-11	-9	-4	-1	4	8	10	-7	Error (mV)
			1.58	-0.35	-0.77	-0.65	-0.53	-0.22	-0.04	0.26	0.50	0.62	-0.41	1.6
8.6 GHz	INTERCEPT (mV)	1746.7	972	1022	1095	1174	1253	1338	1421	1508	1592	1676	1749	Measured Value (mV)
	SLOPE (mV/dB)	16.1	28	-2	-10	-11	-12	-7	-5	2	6	10	2	Error (mV)
			1.73	-0.15	-0.60	-0.68	-0.76	-0.46	-0.29	0.13	0.36	0.59	0.14	1.7
12.4 GHz	INTERCEPT (mV)	1734.7	982	1041	1115	1192	1268	1346	1425	1508	1587	1667	1729	Measured Value (mV)
	SLOPE (mV/dB)	15.4	15	-3	-6	-5	-6	-5	-3	4	6	9	-6	Error (mV)
			0.97	-0.19	-0.37	-0.35	-0.40	-0.32	-0.17	0.23	0.38	0.59	-0.37	1.0
16.2 GHz	INTERCEPT (mV)	1731.5	984	1043	1116	1192	1264	1343	1424	1502	1584	1660	1734	Measured Value (mV)
	SLOPE (mV/dB)	15.3	16	-1	-4	-5	-9	-7	-2	0	5	5	2	Error (mV)
			1.07	-0.07	-0.29	-0.32	-0.61	-0.43	-0.13	-0.03	0.34	0.32	0.16	1.1
20 GHz	INTERCEPT (mV)	1744.2	997	1061	1131	1207	1277	1362	1438	1514	1695	1670	1750	Measured Value (mV)
	SLOPE (mV/dB)	15.2	14	1	-5	-5	-11	-2	-2	-2	3	2	6	Error (mV)
			0.89	0.10	-0.30	-0.31	-0.71	-0.12	-0.12	-0.13	0.19	0.12	0.38	0.9
Average Slope (mV/dB)	15.9	0.8	1.3	1.2	1	0.8	0.8	0.8	1	1.2	1.4	1.5	Flatness: ± 1.5 dB	





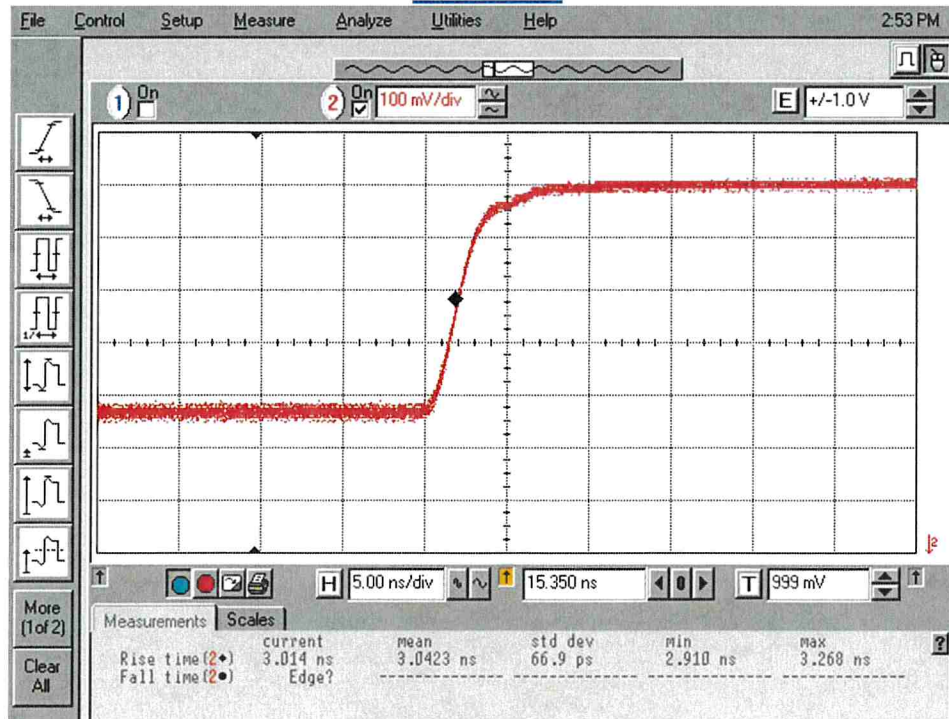
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VSWR Plot



Rise Time

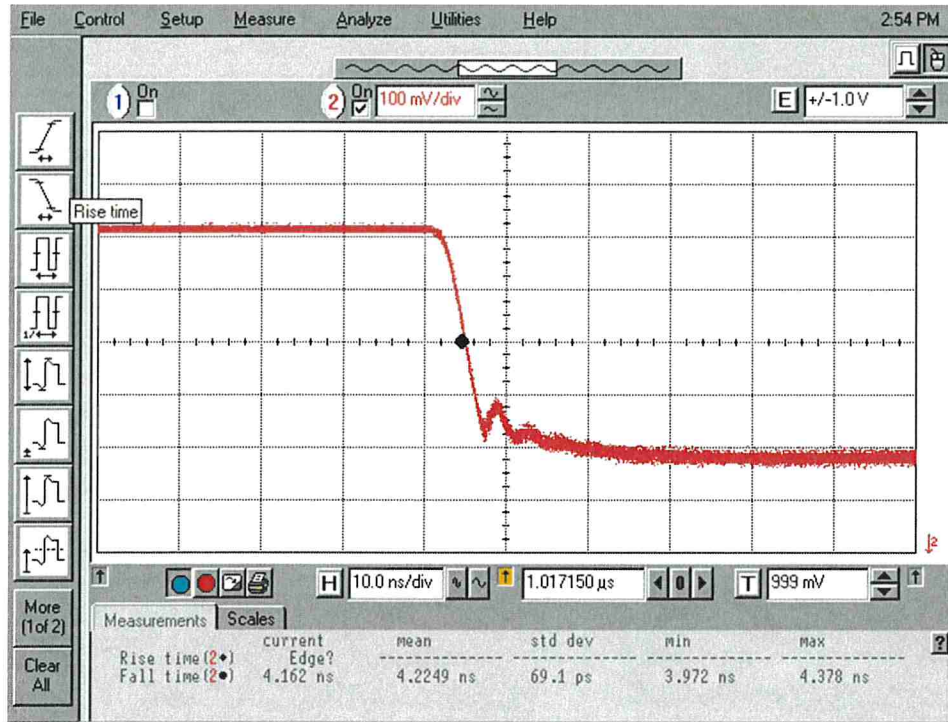




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Fall/Recovery Time



TSS Plot

