



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

**PL30890/2051**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL30890/2051

Tested By: Glen G. Sign: GG  
 QA/QC By: AZ Sign: AZ  
 Temperature: +25°C  
 Date: 12/14/2020  
 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	±0.5 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 1.2 dB Max ± 0.82 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	3.47:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	0.9 to 1.7 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	14.7 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	4.2 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	21.0 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	-56 dBm	
14	Power Supply	+12V @ 100mA Typ	93 mA	Pass	PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 12-17-2020



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**Transfer @ 25C – Data**

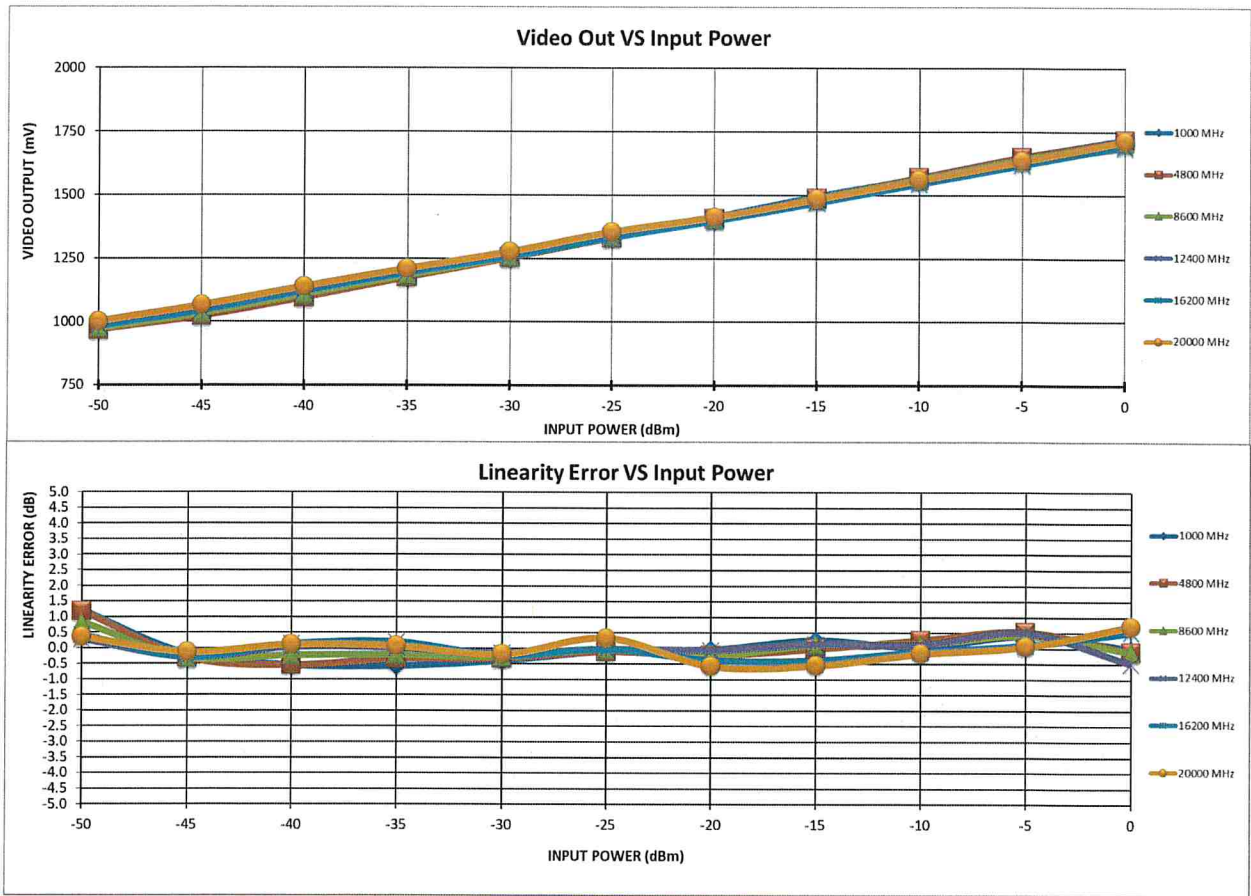
LOG TRANSFER VS FREQUENCY															
MODEL: SDLVA-1G20G-58-12-SFF														Test Temp: +25C	
TESTED BY: Glen G.															
DATE: 12/1/2020															
SERIAL NO: PL30890															
Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
1000 MHz	INTERCEPT (mV)	1719.3	974	1029	1100	1176	1255	1336	1413	1494	1567	1649	1719	Measured Value (mV)	
	SLOPE (mV/dB)	15.3	18	-3	-8	-9	-6	-1	-1	4	0	6	0	Error (mV)	
			1.20	-0.20	-0.55	-0.57	-0.40	-0.10	-0.05	0.25	0.03	0.40	-0.02	1.2	
4800 MHz	INTERCEPT (mV)	1718.6	969	1023	1096	1176	1253	1333	1408	1488	1569	1650	1717	Measured Value (mV)	
	SLOPE (mV/dB)	15.4	18	-5	-8	-5	-5	-2	-4	0	4	8	-2	Error (mV)	
			1.18	-0.30	-0.55	-0.34	-0.32	-0.11	-0.23	-0.02	0.26	0.53	-0.11	1.2	
8600 MHz	INTERCEPT (mV)	1710.7	975	1033	1109	1184	1258	1336	1408	1488	1563	1642	1709	Measured Value (mV)	
	SLOPE (mV/dB)	15.0	12	-5	-3	-3	-4	-1	-4	2	2	6	-2	Error (mV)	
			0.81	-0.31	-0.23	-0.22	-0.27	-0.05	-0.24	0.11	0.12	0.40	-0.12	0.8	
12400 MHz	INTERCEPT (mV)	1695	986	1049	1125	1196	1265	1338	1409	1483	1554	1631	1688	Measured Value (mV)	
	SLOPE (mV/dB)	14.3	4	-4	0	0	-2	-1	-1	2	2	7	-7	Error (mV)	
			0.28	-0.30	0.02	0.00	-0.16	-0.04	-0.06	0.13	0.11	0.51	-0.49	0.5	
16200 MHz	INTERCEPT (mV)	1688.6	984	1045	1122	1194	1259	1333	1399	1470	1545	1619	1696	Measured Value (mV)	
	SLOPE (mV/dB)	14.2	6	-4	2	3	-3	0	-5	-5	-1	1	7	Error (mV)	
			0.43	-0.28	0.13	0.20	-0.23	-0.02	-0.38	-0.38	-0.10	0.10	0.52	0.5	
20000 MHz	INTERCEPT (mV)	1703.9	1002	1066	1140	1210	1277	1355	1413	1484	1560	1634	1714	Measured Value (mV)	
	SLOPE (mV/dB)	14.1	5	-2	2	1	-3	5	-8	-8	-3	1	10	Error (mV)	
			0.35	-0.12	0.11	0.07	-0.20	0.32	-0.58	-0.55	-0.18	0.06	0.71	0.7	
	Average Slope (mV/dB)	14.7	1.2	1.5	1.5	1.2	0.8	0.8	0.5	0.8	0.8	1.1	1.1	Flatness = ± 0.5	



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Transfer @ 25C – Plot



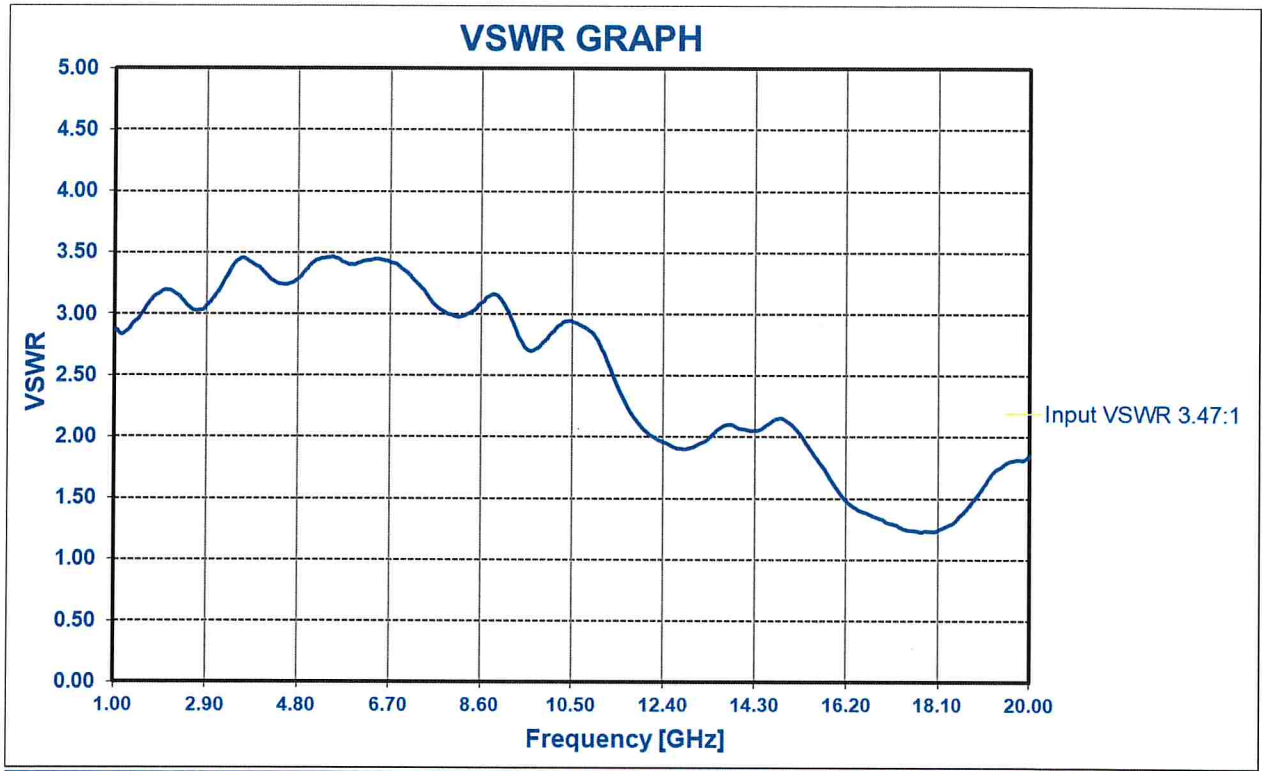




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VSWR

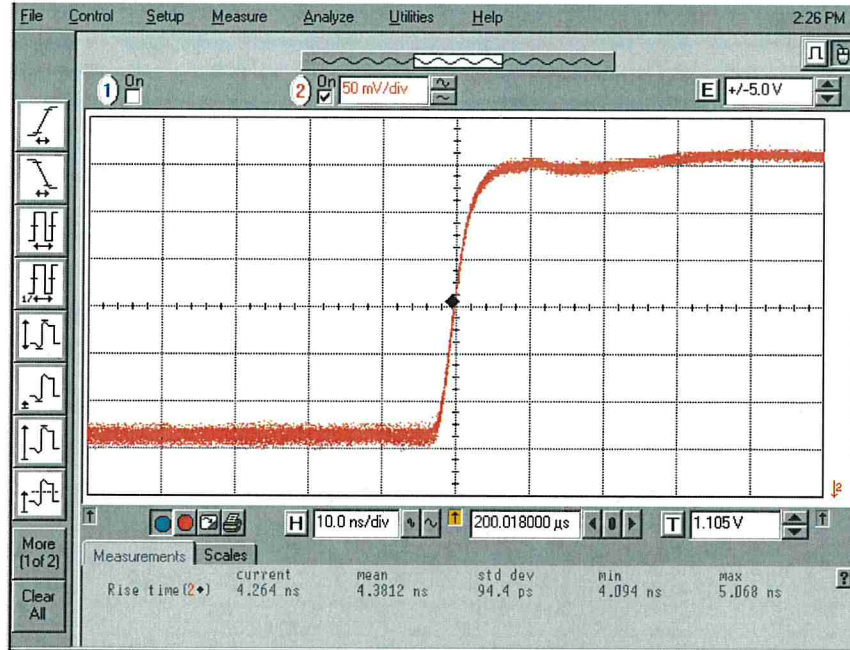




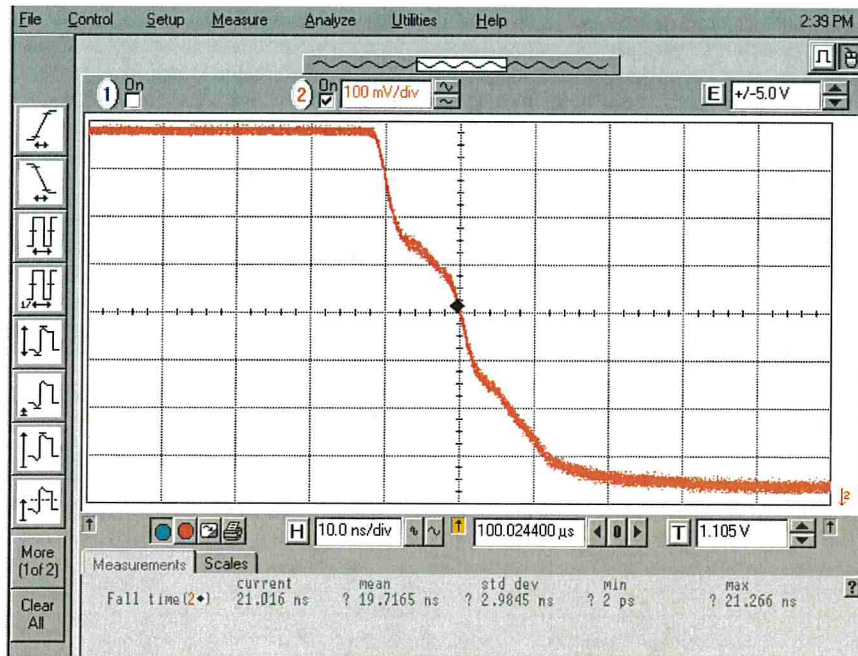
# SUMMARY TEST DATA ON SDLVA-1G20G-58-12-SFF

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## Rise Time



## Fall/Recovery Time





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TSS

