



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

PL30891/2051

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL30891/2051

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	±0.55 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 1.7 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	3.8:1	
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	4.5 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	21.5 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	-56 dBm	
14	Power Supply	+12V @ 100mA Typ	91 mA	Pass	PMI QA3

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



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Transfer @ 25C – Data

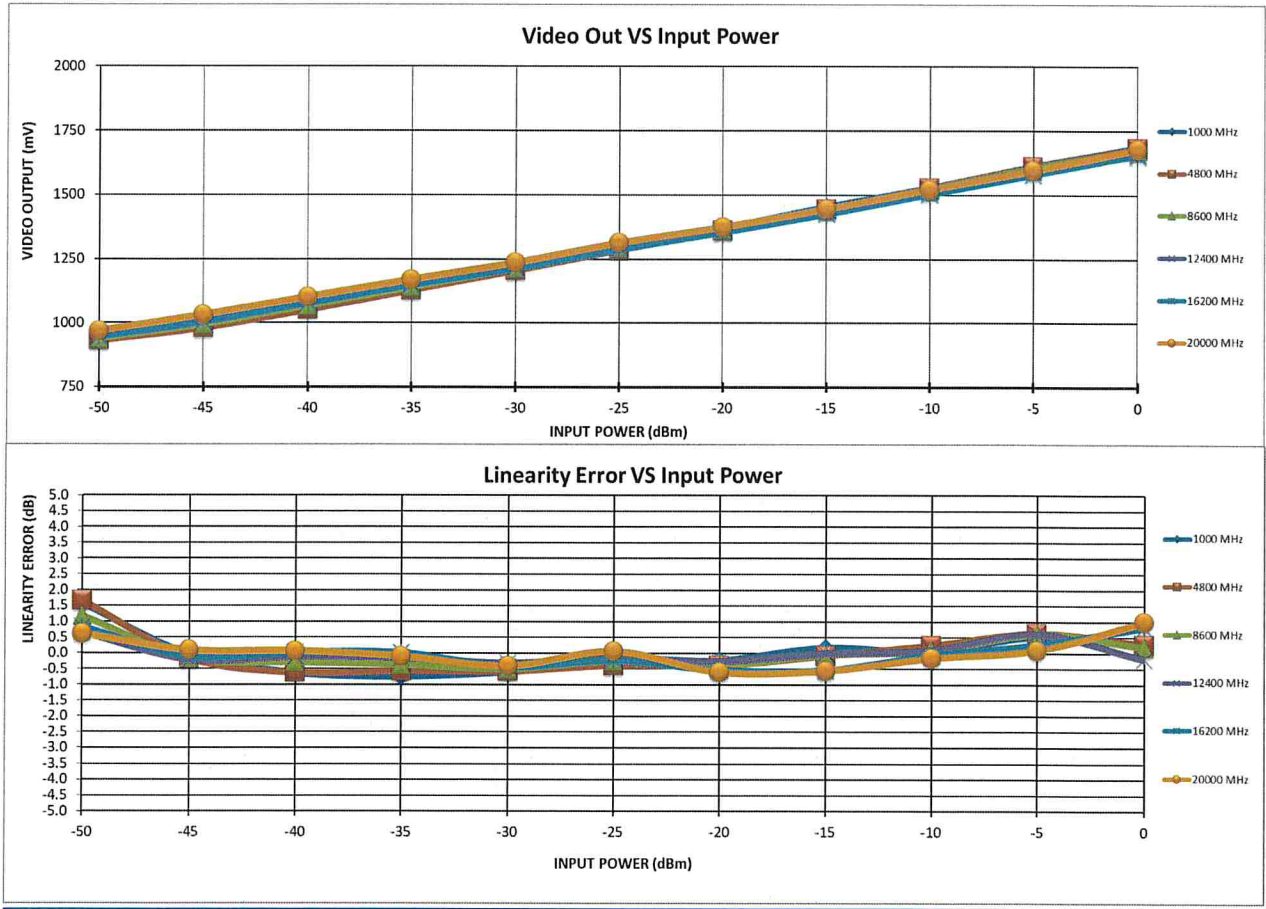
LOG TRANSFER VS FREQUENCY															
MODEL: SDLVA-1G20G-58-12-SFF														Test Temp: +25C	
TESTED BY: Glen G.															
DATE: 12/11/2020															
SERIAL NO: PL30891															
Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
1000 MHz	INTERCEPT (mV)	1679.8	936	988	1056	1131	1210	1291	1369	1452	1527	1611	1684	Measured Value (mV)	
	SLOPE (mV/dB)	15.4	24	-1	-10	-11	-9	-5	-4	3	1	8	4	Error (mV)	
			1.56	-0.05	-0.62	-0.74	-0.59	-0.32	-0.24	0.16	0.05	0.52	0.27	1.6	
4800 MHz	INTERCEPT (mV)	1677.6	932	981	1051	1129	1206	1286	1363	1445	1527	1610	1682	Measured Value (mV)	
	SLOPE (mV/dB)	15.4	26	-3	-10	-9	-9	-6	-6	-1	4	10	4	Error (mV)	
			1.66	-0.16	-0.63	-0.57	-0.58	-0.39	-0.40	-0.08	0.24	0.62	0.29	1.7	
8600 MHz	INTERCEPT (mV)	1672.1	939	994	1067	1141	1214	1293	1366	1446	1523	1606	1675	Measured Value (mV)	
	SLOPE (mV/dB)	15.0	18	-2	-5	-6	-3	-4	-6	-1	1	9	3	Error (mV)	
			1.17	-0.16	-0.30	-0.37	-0.51	-0.25	-0.39	-0.06	0.07	0.60	0.19	1.2	
12400 MHz	INTERCEPT (mV)	1655.7	950	1009	1082	1153	1222	1296	1366	1441	1514	1593	1653	Measured Value (mV)	
	SLOPE (mV/dB)	14.3	10	-3	-2	-2	-5	-2	-4	0	1	9	-3	Error (mV)	
			0.66	-0.21	-0.11	-0.14	-0.32	-0.15	-0.25	-0.01	0.09	0.62	-0.19	0.7	
16200 MHz	INTERCEPT (mV)	1647.4	947	1005	1078	1149	1214	1288	1355	1426	1504	1580	1659	Measured Value (mV)	
	SLOPE (mV/dB)	14.2	12	-2	0	0	-6	-3	-8	-8	-1	4	12	Error (mV)	
			0.82	-0.11	0.02	0.00	-0.43	-0.24	-0.53	-0.55	-0.07	0.27	0.81	0.8	
20000 MHz	INTERCEPT (mV)	1664.2	969	1032	1102	1170	1236	1313	1374	1445	1521	1595	1678	Measured Value (mV)	
	SLOPE (mV/dB)	14.1	9	1	1	-2	-6	1	-9	-8	-2	1	14	Error (mV)	
			0.61	0.09	0.06	-0.11	-0.42	0.05	-0.61	-0.57	-0.17	0.09	0.98	1.0	
	Average Slope (mV/dB)	14.7	1.3	1.8	1.8	1.4	1	0.9	0.7	0.9	0.8	1.1	1.1	Flatness = ± 0.55	



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Transfer @ 25C – Plot

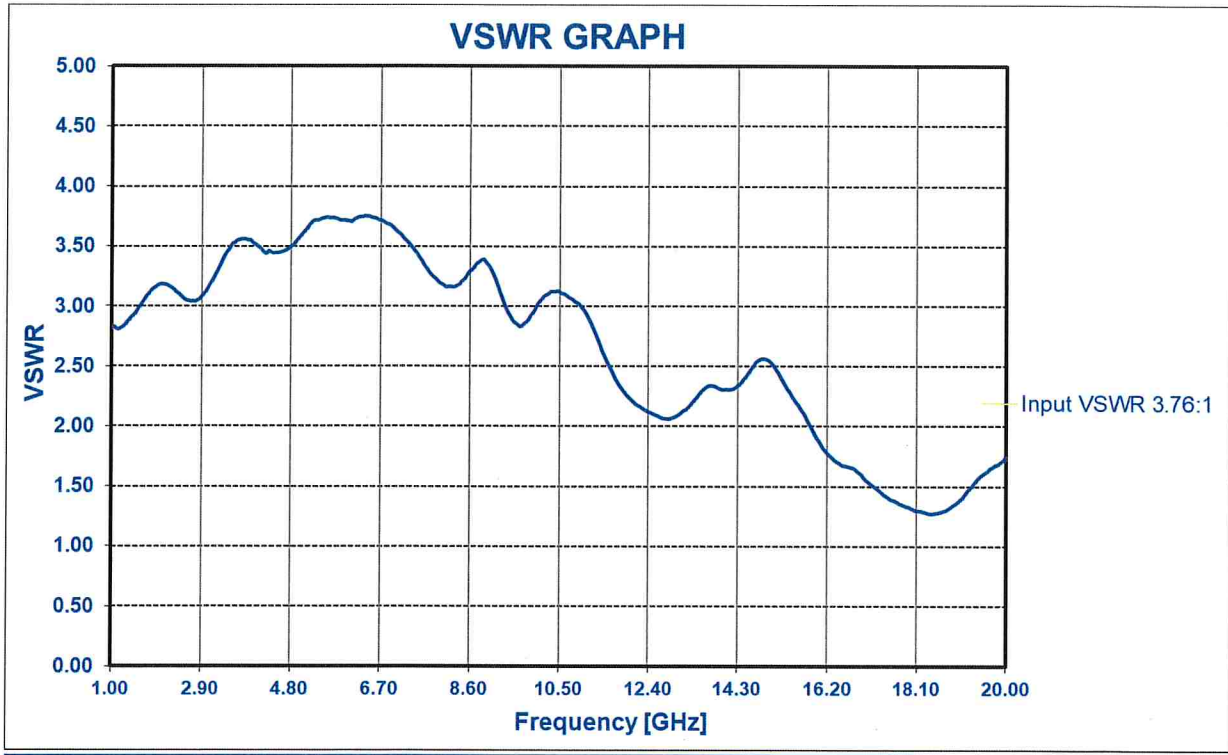




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VSWR

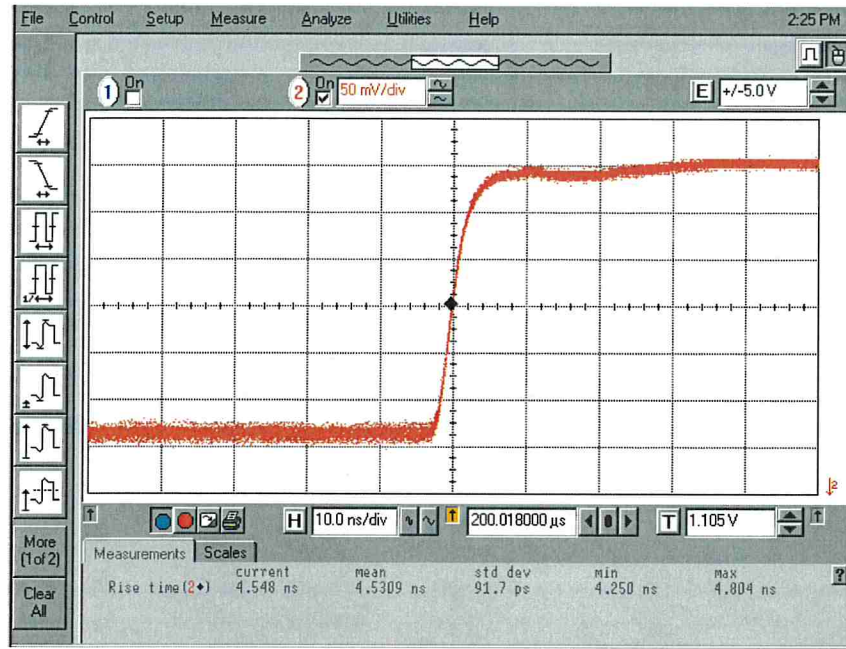




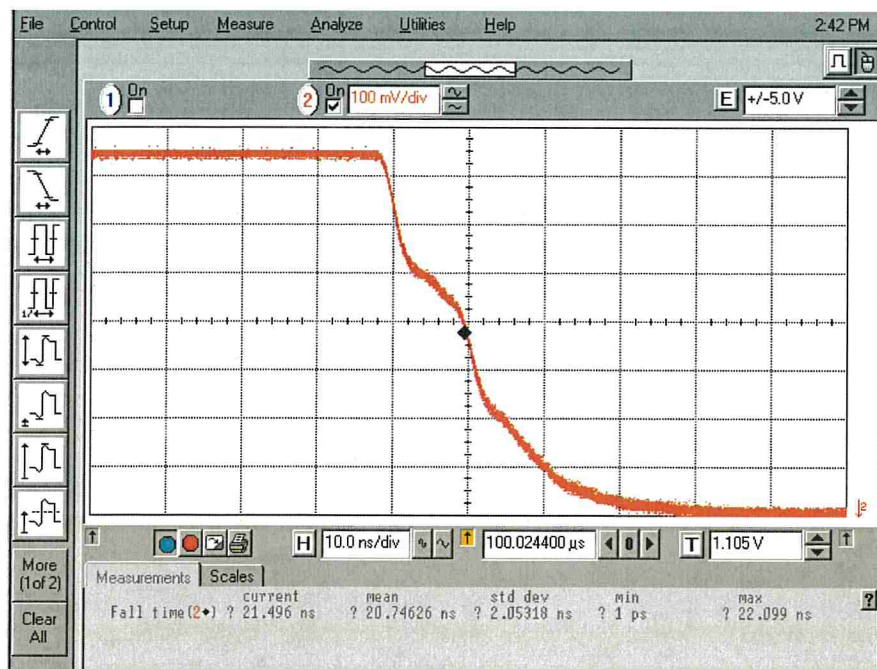
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Rise Time



Fall/Recovery Time





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TSS

