



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

PL30888/2051

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL30888/2051

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	±0.65 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 2.4 dB Max ± 1.5 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	3.4:1	
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	15.1 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	16.4 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	-55 dBm	
14	Power Supply	+12V @ 100mA Typ	96 mA	Pass	PMI QA3

QA/QC Approval: Arthur Zimmerman

Date: 12-17-2020



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Transfer @ 25C – Data

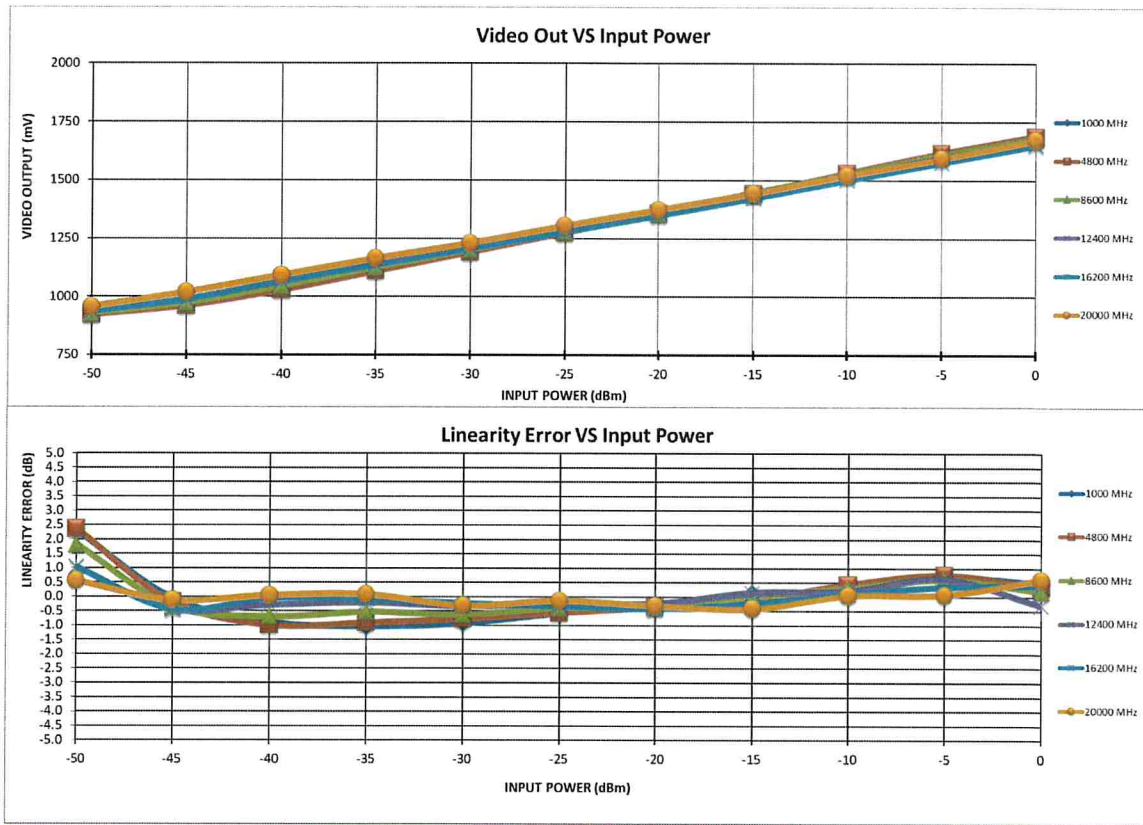
LOG TRANSFER VS FREQUENCY														
MODEL: SDLVA-1G20G-58-12-SFF													Test Temp: +25C	
TESTED BY: Glen G.														
DATE: 12/14/2020														
SERIAL NO: PL30888														
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
1000 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		926	968	1034	1111	1192	1277	1361	1447	1527	1614	1690	2.3	
		36	-1	-14	-16	-15	-9	-4	2	3	11	7		
		2.30	-0.05	-0.89	-1.04	-0.93	-0.57	-0.28	0.14	0.19	0.67	0.46		
4800 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		923	962	1029	1110	1192	1275	1358	1442	1530	1615	1688	2.4	
		38	-3	-16	-15	-12	-9	-6	-1	7	12	5		
		2.36	-0.19	-0.99	-0.91	-0.77	-0.56	-0.36	-0.09	0.43	0.76	0.34		
8600 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		929	973	1045	1125	1201	1282	1360	1443	1525	1607	1678	1.8	
		28	-5	-11	-8	-10	-6	-5	0	5	9	3		
		1.81	-0.34	-0.69	-0.53	-0.62	-0.39	-0.35	0.01	0.31	0.60	0.19		
12400 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		938	990	1066	1141	1213	1288	1362	1441	1516	1596	1656	1.0	
		15	-7	-4	-3	-5	-4	-3	2	3	9	-4		
		1.03	-0.44	-0.29	-0.21	-0.32	-0.24	-0.22	0.13	0.22	0.64	-0.29		
16200 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		936	987	1065	1137	1207	1278	1349	1424	1501	1577	1650	1.0	
		15	-7	-1	-1	-4	-5	-6	-3	1	5	6		
		1.02	-0.46	-0.06	-0.08	-0.24	-0.33	-0.42	-0.24	0.09	0.34	0.39		
20000 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		956	1018	1092	1164	1230	1304	1373	1443	1521	1593	1672	0.6	
		8	-2	1	1	-4	-2	-5	-6	0	1	8		
		0.53	-0.13	0.04	0.07	-0.31	-0.14	-0.32	-0.42	0.03	0.06	0.58		
	Average Slope (mV/dB)												Flatness = ± 0.65	
		1.1	1.9	2.1	1.8	1.3	1	0.8	0.8	1	1.3	1.4		
		926	968	1034	1111	1192	1277	1361	1447	1527	1614	1690		
		36	-1	-14	-16	-15	-9	-4	2	3	11	7		
		2.30	-0.05	-0.89	-1.04	-0.93	-0.57	-0.28	0.14	0.19	0.67	0.46		



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Transfer @ 25C – Plot

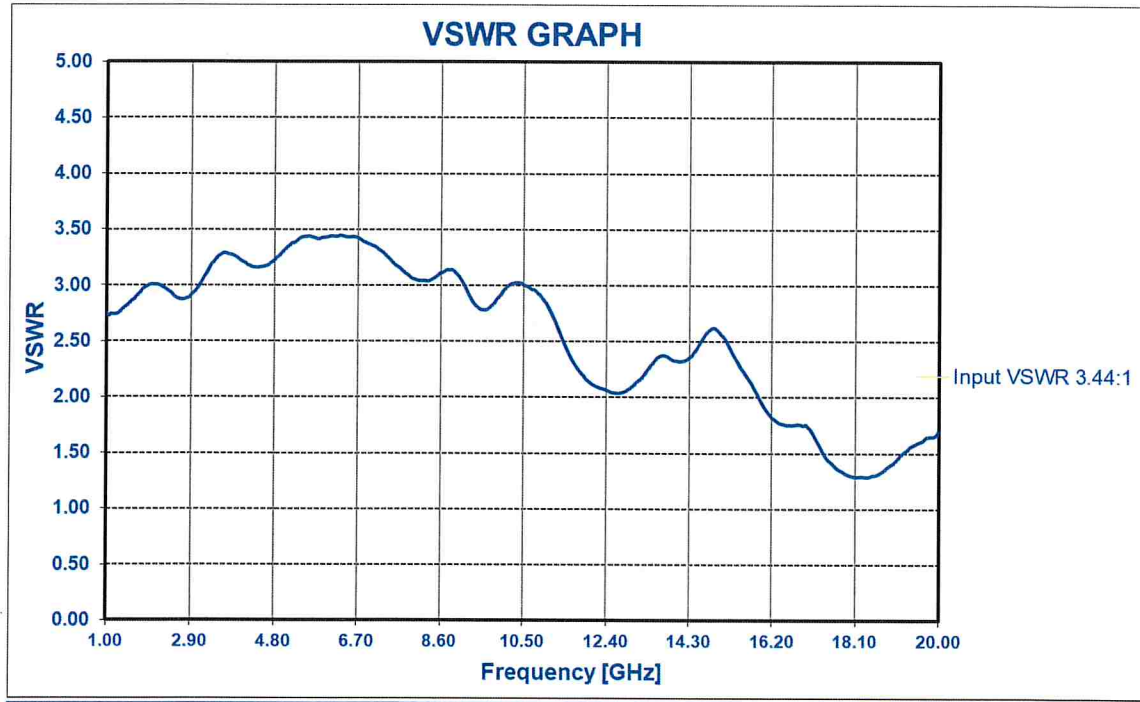




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VSWR





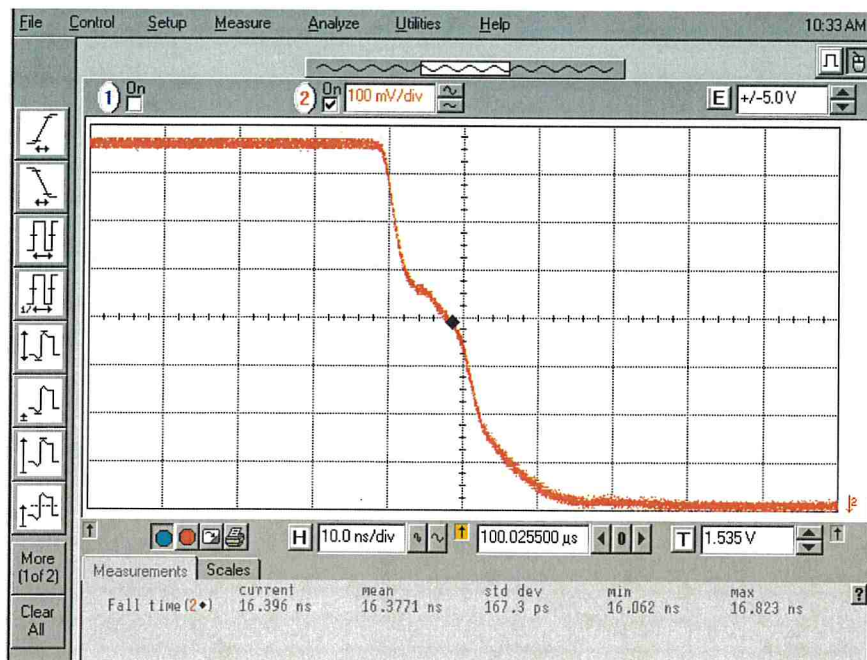
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Rise Time



Fall/Recovery Time





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TSS

