



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

PL30887/2051

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL30887/2051

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	±0.7 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 1.4 dB Max ± 0.9 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	3.6:1	
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	14.4 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	4.8 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	17.5 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	-57 dBm	
14	Power Supply	+12V @ 100mA Typ	92 mA	Pass	PMI QA3

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



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Transfer @ 25C – Data

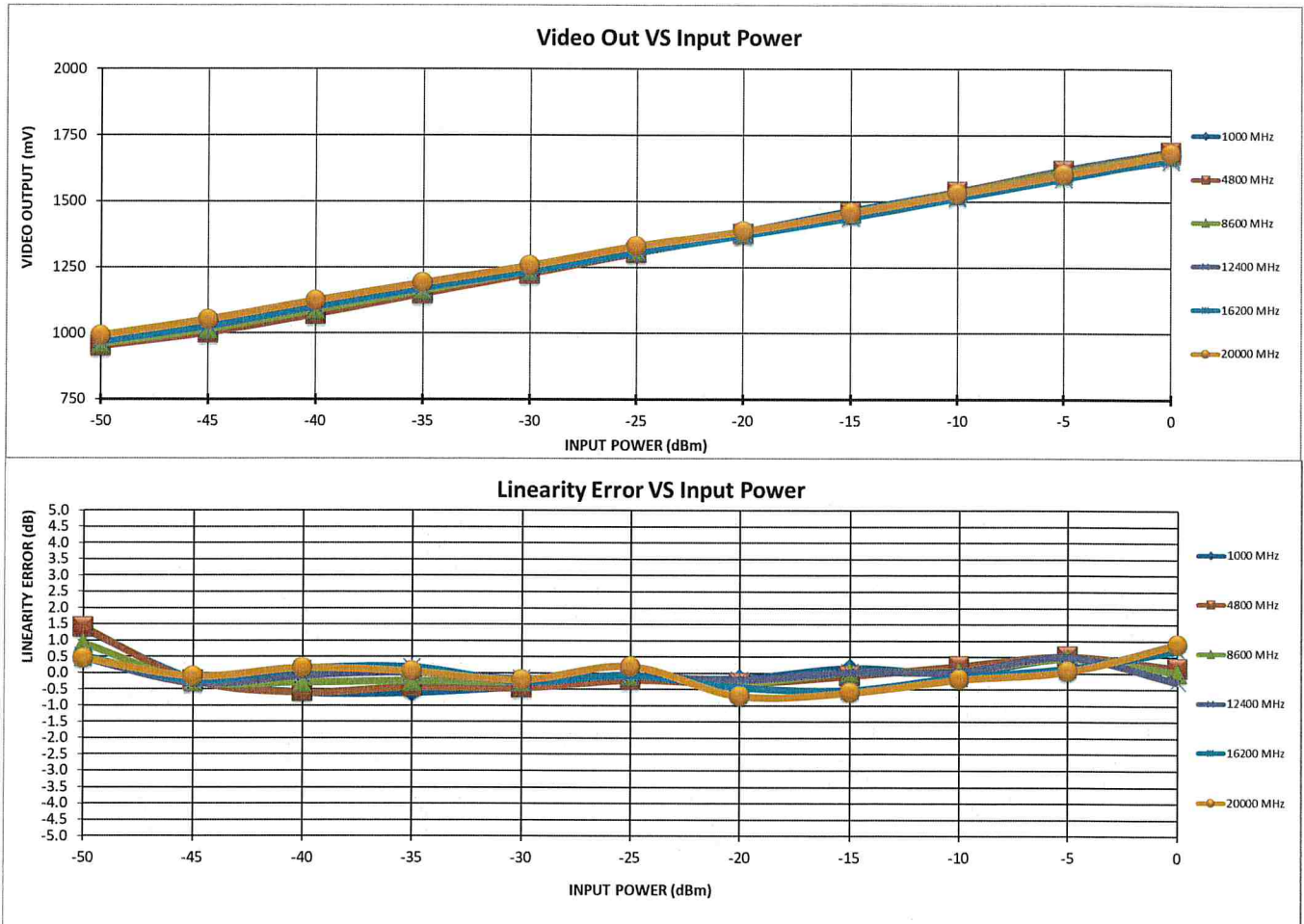
LOG TRANSFER VS FREQUENCY																
MODEL: SDLVA-1G20G-58-12-SFF															Test Temp: +25C	
TESTED BY: Glen G.																
DATE: 12/14/2020																
SERIAL NO: PL30887																
Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)		
1000 MHz	INTERCEPT (mV)	1687.1	956	1008	1077	1152	1230	1309	1384	1464	1537	1619	1689	Measured Value (mV)		
	SLOPE (mV/dB)	15.0	20	-3	-9	-9	-6	-2	-3	2	0	7	2	Error (mV)		
			1.36	-0.18	-0.59	-0.60	-0.41	-0.16	-0.17	0.15	0.01	0.47	0.12	1.4		
4800 MHz	INTERCEPT (mV)	1684.6	951	1002	1072	1150	1225	1304	1378	1457	1537	1617	1687	Measured Value (mV)		
	SLOPE (mV/dB)	15.1	21	-3	-9	-6	-7	-3	-5	-1	3	8	2	Error (mV)		
			1.40	-0.22	-0.59	-0.42	-0.45	-0.22	-0.31	-0.08	0.22	0.52	0.16	1.4		
8800 MHz	INTERCEPT (mV)	1679.7	960	1016	1089	1163	1236	1312	1382	1460	1534	1613	1680	Measured Value (mV)		
	SLOPE (mV/dB)	14.7	13	-4	-4	-4	-4	-1	-4	0	1	7	0	Error (mV)		
			0.91	-0.27	-0.29	-0.24	-0.26	-0.08	-0.31	0.01	0.06	0.45	0.02	0.9		
12400 MHz	INTERCEPT (mV)	1659.6	969	1028	1101	1172	1239	1310	1378	1451	1521	1597	1656	Measured Value (mV)		
	SLOPE (mV/dB)	13.9	6	-4	-1	0	-2	-1	-3	0	1	7	-4	Error (mV)		
			0.46	-0.31	-0.07	0.02	-0.17	-0.08	-0.20	0.04	0.06	0.51	-0.26	0.5		
16200 MHz	INTERCEPT (mV)	1654.2	969	1028	1102	1172	1235	1307	1371	1439	1514	1587	1664	Measured Value (mV)		
	SLOPE (mV/dB)	13.8	7	-3	2	2	-4	-1	-6	-7	-2	2	10	Error (mV)		
			0.52	-0.22	0.13	0.18	-0.27	-0.07	-0.45	-0.54	-0.13	0.15	0.71	0.7		
20000 MHz	INTERCEPT (mV)	1669.7	991	1052	1124	1191	1256	1330	1386	1456	1530	1602	1682	Measured Value (mV)		
	SLOPE (mV/dB)	13.7	6	-1	2	1	-3	3	-10	-8	-3	1	12	Error (mV)		
			0.45	-0.10	0.16	0.05	-0.20	0.20	-0.71	-0.60	-0.20	0.06	0.90	0.9		
	Average Slope (mV/dB)	14.4	1.4	1.8	1.9	1.5	1.1	0.9	0.5	0.9	0.8	1.1	1.2	Flatness = ± 0.7		



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Transfer @ 25C – Plot

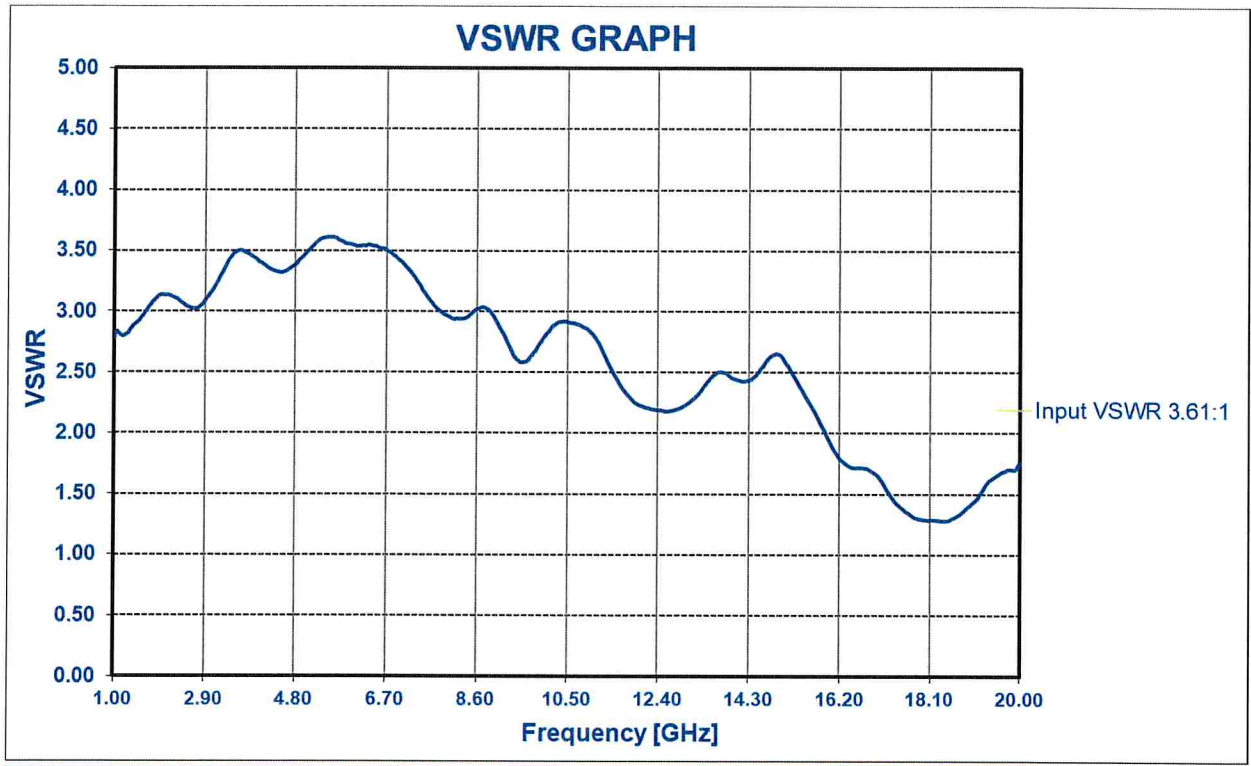




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VSWR

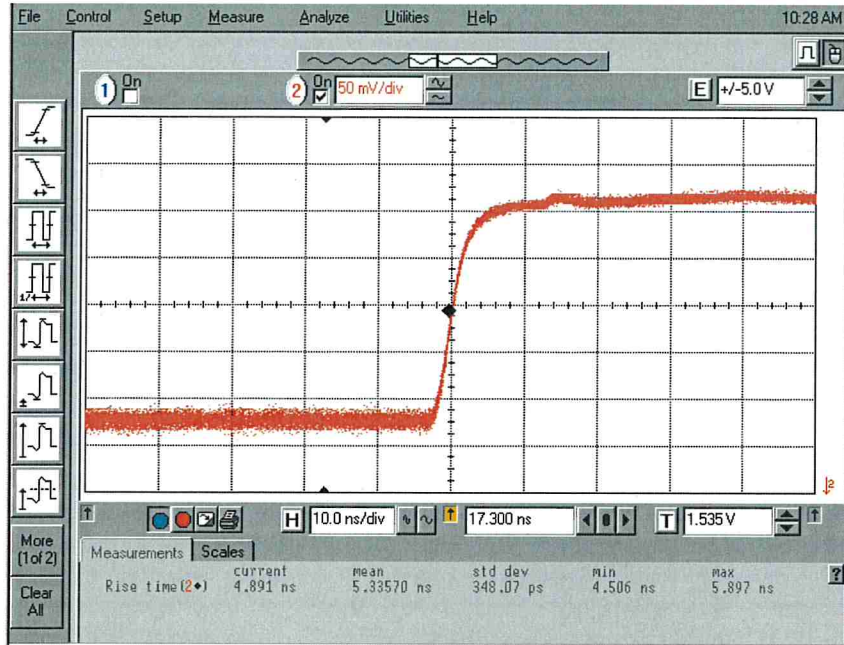




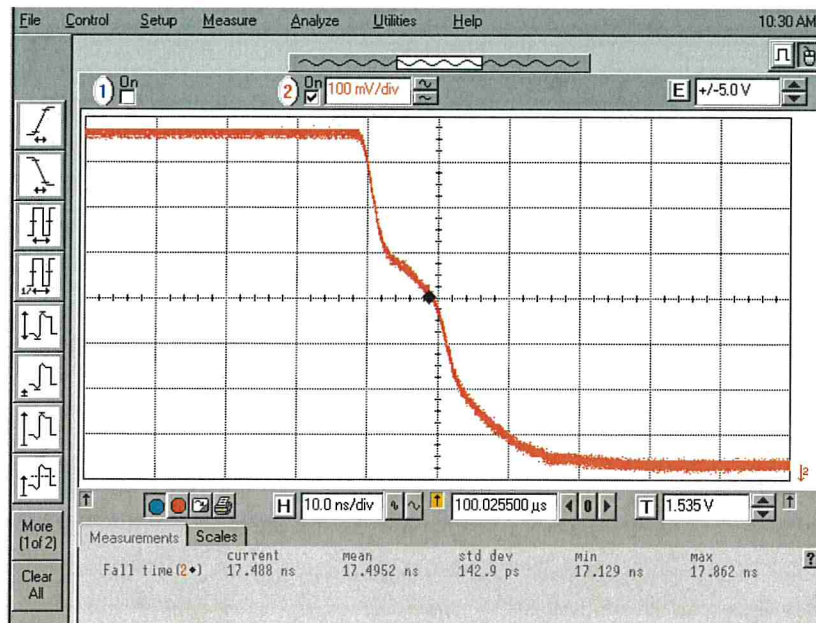
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Rise Time



Fall/Recovery Time





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TSS

