



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

**PL29627/2032**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL29627/2032

Tested By: Simon K.  
 QA/QC By: Arthur Z.  
 Temperature: +25°C  
 Date: 08/06/2020  
 Drawing No: 27612160

Sign: *Simon K.*  
 Sign: *AZ*  
 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	± 1.4 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	3.22:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	1.0 to 1.7 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	15.2 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	7.1 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	12 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	-59 dBm	✓
14	Power Supply	+12V @ 100mA Typ	93 mA	Pass	PMI QA3

QA/QC Approval: *Arthur Zimmerman* Date: 8-7-2020



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**Transfer @ 25C – Data**

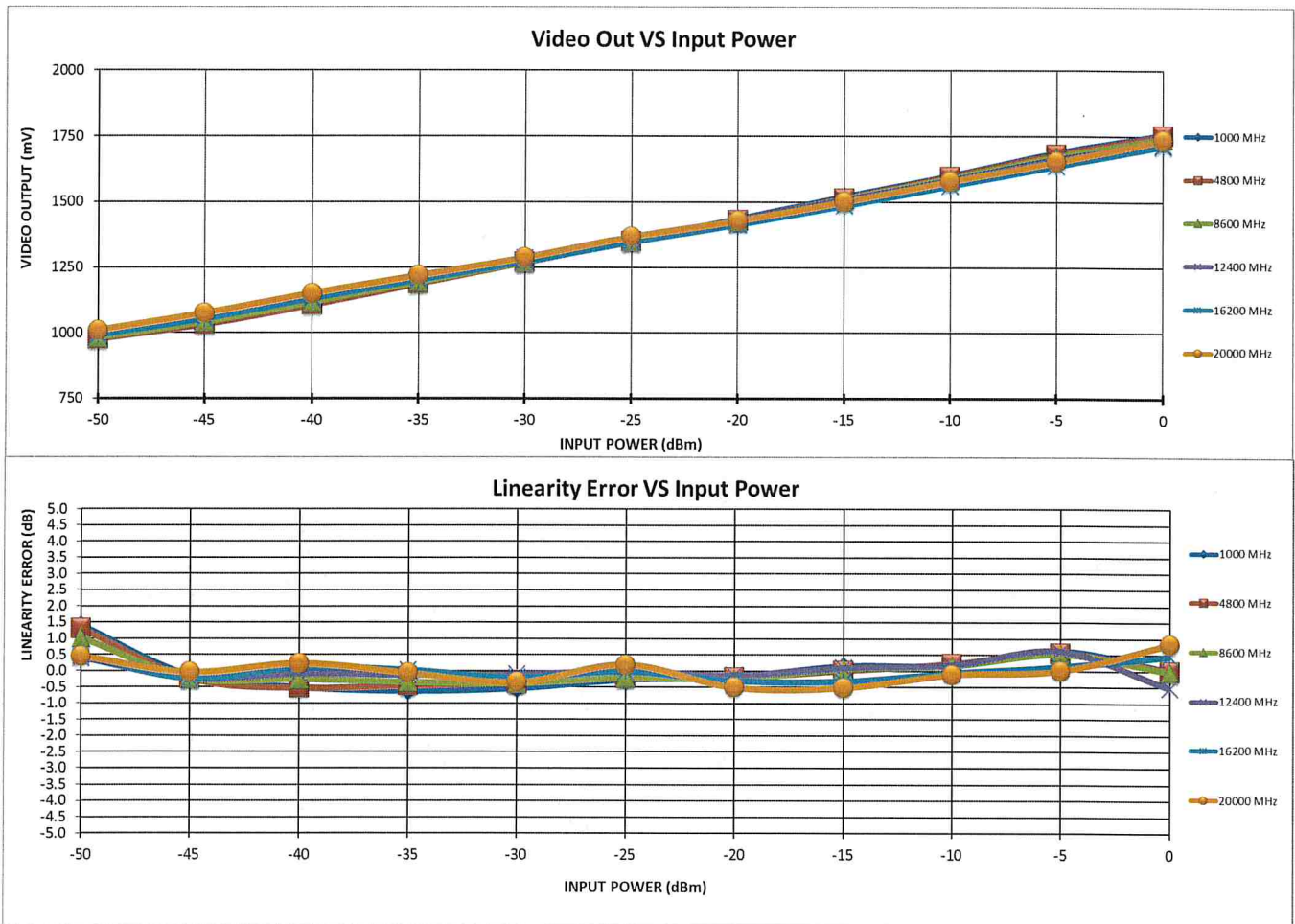
LOG TRANSFER VS FREQUENCY														
MODEL: SDLVA-1G20G-58-12-SFF														Test Temp: +25C
TESTED BY: Simon K.														
DATE: 08/06/2020														
SERIAL NO: PL29627														
Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	1756	981	1036	1110	1188	1269	1353	1434	1519	1599	1686	1756	Measured Value (mV)
	SLOPE (mV/dB)	15.9	22	-2	-8	-10	-9	-4	-3	2	2	10	0	Error (mV)
			1.39	-0.16	-0.51	-0.62	-0.54	-0.27	-0.19	0.14	0.16	0.61	0.00	1.4
4800 MHz	INTERCEPT (mV)	1752	976	1031	1106	1187	1268	1350	1430	1513	1596	1681	1752	Measured Value (mV)
	SLOPE (mV/dB)	15.9	21	-4	-9	-7	-6	-4	-3	0	3	9	0	Error (mV)
			1.30	-0.25	-0.54	-0.46	-0.37	-0.23	-0.21	0.00	0.21	0.54	0.00	1.3
8600 MHz	INTERCEPT (mV)	1740.5	982	1040	1117	1193	1270	1350	1427	1509	1588	1671	1740	Measured Value (mV)
	SLOPE (mV/dB)	15.5	18	-4	-4	-6	-6	-3	-4	1	2	8	0	Error (mV)
			1.02	-0.24	-0.27	-0.36	-0.38	-0.22	-0.24	0.05	0.15	0.51	-0.03	1.0
12400 MHz	INTERCEPT (mV)	1726.7	996	1060	1136	1209	1283	1358	1430	1507	1582	1662	1719	Measured Value (mV)
	SLOPE (mV/dB)	14.7	6	-4	-1	-2	-2	0	-2	1	3	9	-8	Error (mV)
			0.41	-0.25	-0.09	-0.14	-0.11	-0.02	-0.14	0.09	0.18	0.61	-0.52	0.6
16200 MHz	INTERCEPT (mV)	1707.5	992	1054	1131	1202	1271	1346	1414	1486	1562	1637	1714	Measured Value (mV)
	SLOPE (mV/dB)	14.4	7	-3	1	0	-3	0	-5	-5	-1	2	7	Error (mV)
			0.48	-0.23	0.10	0.01	-0.21	-0.02	-0.31	-0.33	-0.07	0.12	0.45	0.5
20000 MHz	INTERCEPT (mV)	1724.1	1009	1074	1150	1218	1286	1366	1428	1500	1578	1652	1736	Measured Value (mV)
	SLOPE (mV/dB)	14.4	6	-1	3	-1	-5	3	-8	-8	-2	0	12	Error (mV)
			0.44	-0.05	0.21	-0.07	-0.36	0.18	-0.52	-0.53	-0.13	0.00	0.82	0.8
Average Slope (mV/dB)		15.2	1.1	1.5	1.5	1.1	0.6	0.7	0.7	1.1	1.3	1.7	1.4	Flatness = ± 0.55



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Transfer @ 25C – Plot

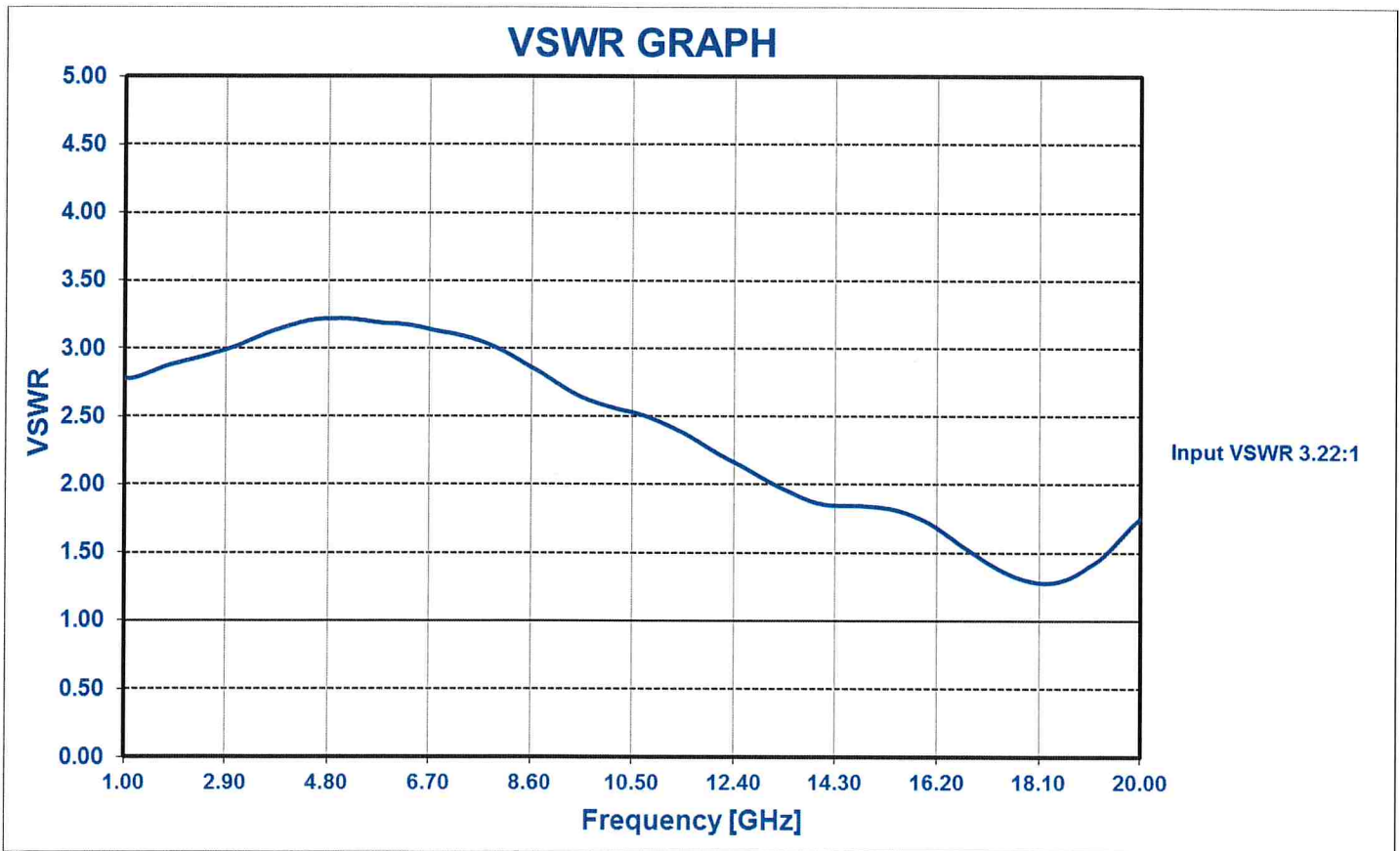




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VSWR

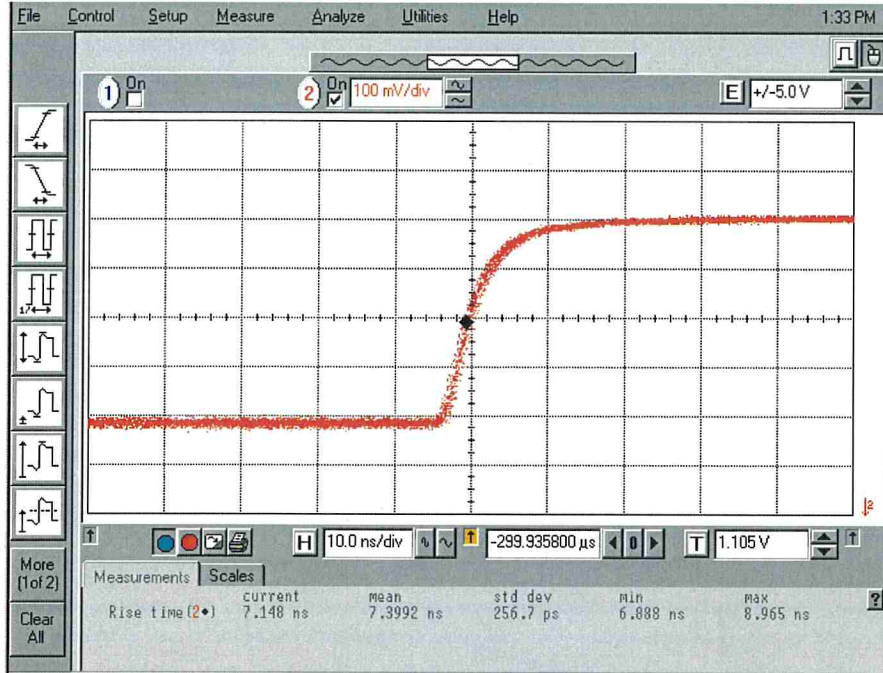




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**Rise Time**



**Fall/Recovery Time**





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TSS

