



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

PL29629/2032

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL29629/2032

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	± 1.2 dB Max ± 0.8 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	3.25:1	
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	4.8 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	11 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	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: PL29629															
Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
1000 MHz	INTERCEPT (mV)	1710.9	957	1012	1084	1162	1241	1323	1401	1483	1559	1642	1707	Measured Value (mV)	
	SLOPE (mV/dB)	15.4	19	-4	-9	-8	-6	-2	-1	4	3	8	-4	Error (mV)	
			1.20	-0.24	-0.58	-0.53	-0.41	-0.11	-0.06	0.25	0.17	0.54	-0.25	1.2	
4800 MHz	INTERCEPT (mV)	1705.2	952	1005	1079	1160	1238	1319	1396	1476	1555	1635	1701	Measured Value (mV)	
	SLOPE (mV/dB)	15.4	18	-6	-9	-5	-5	-1	-1	2	4	7	-4	Error (mV)	
			1.16	-0.40	-0.60	-0.35	-0.29	-0.04	-0.05	0.14	0.26	0.45	-0.27	1.2	
8600 MHz	INTERCEPT (mV)	1689.2	954	1009	1085	1160	1235	1313	1387	1466	1541	1620	1688	Measured Value (mV)	
	SLOPE (mV/dB)	15.0	14	-6	-4	-4	-4	-1	-2	2	2	6	-1	Error (mV)	
			0.96	-0.37	-0.30	-0.30	-0.29	-0.09	-0.16	0.11	0.12	0.39	-0.08	1.0	
12400 MHz	INTERCEPT (mV)	1682	970	1032	1109	1181	1253	1325	1395	1469	1542	1618	1672	Measured Value (mV)	
	SLOPE (mV/dB)	14.3	4	-6	-1	0	0	1	-1	2	3	8	-10	Error (mV)	
			0.25	-0.42	-0.04	-0.01	0.03	0.06	-0.05	0.12	0.22	0.53	-0.70	0.7	
16200 MHz	INTERCEPT (mV)	1661	964	1025	1100	1172	1239	1311	1378	1447	1519	1592	1665	Measured Value (mV)	
	SLOPE (mV/dB)	14.0	5	-4	0	2	-1	1	-2	-4	-2	1	4	Error (mV)	
			0.33	-0.32	0.02	0.15	-0.07	0.06	-0.17	-0.25	-0.12	0.08	0.28	0.3	
20000 MHz	INTERCEPT (mV)	1675.5	980	1042	1116	1186	1252	1328	1389	1458	1534	1606	1684	Measured Value (mV)	
	SLOPE (mV/dB)	14.0	6	-3	1	1	-3	3	-6	-7	-1	1	9	Error (mV)	
			0.39	-0.19	0.09	0.09	-0.21	0.21	-0.44	-0.51	-0.09	0.04	0.61	0.6	
Average Slope (mV/dB)		14.7	1	1.3	1.3	0.9	0.6	0.6	0.8	1.3	1.4	1.7	1.5	Flatness = ± 0.55	

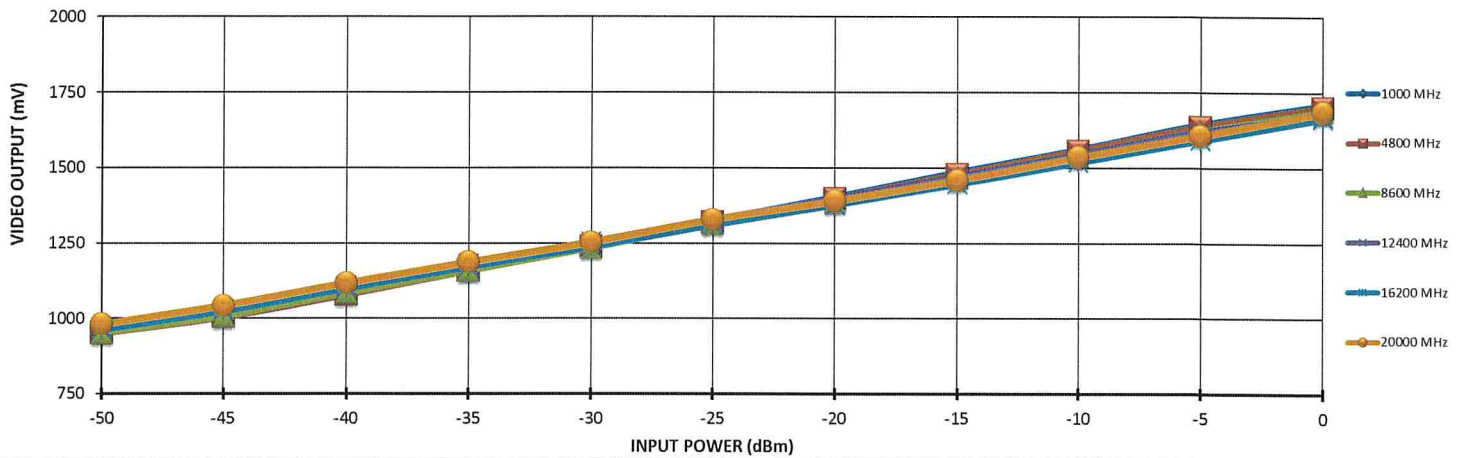


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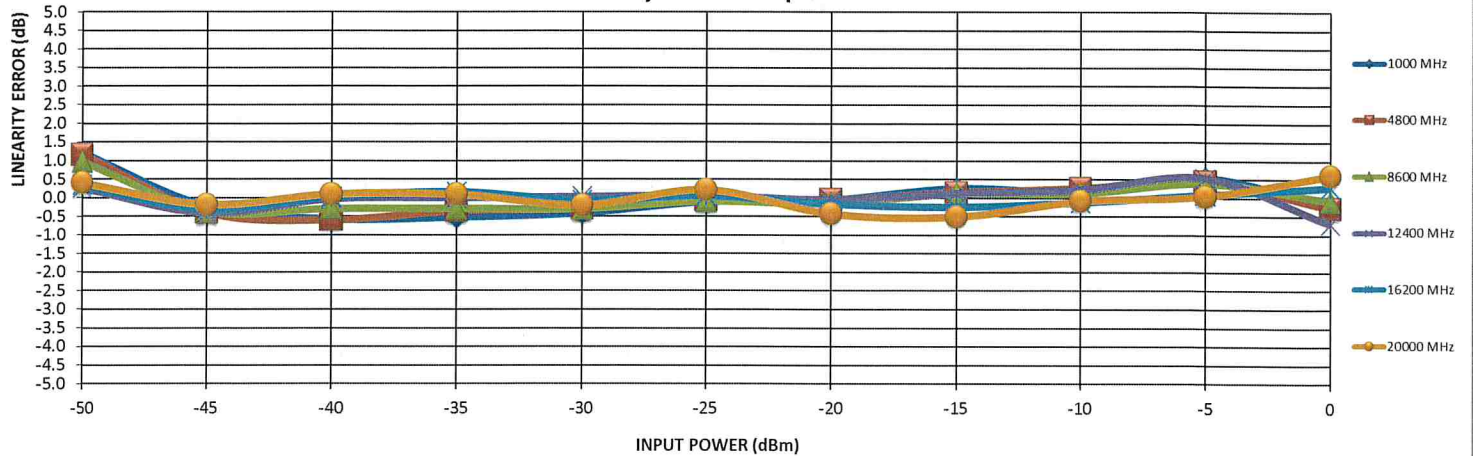
PL29629/2032

Transfer @ 25C – Plot

Video Out VS Input Power



Linearity Error VS Input Power

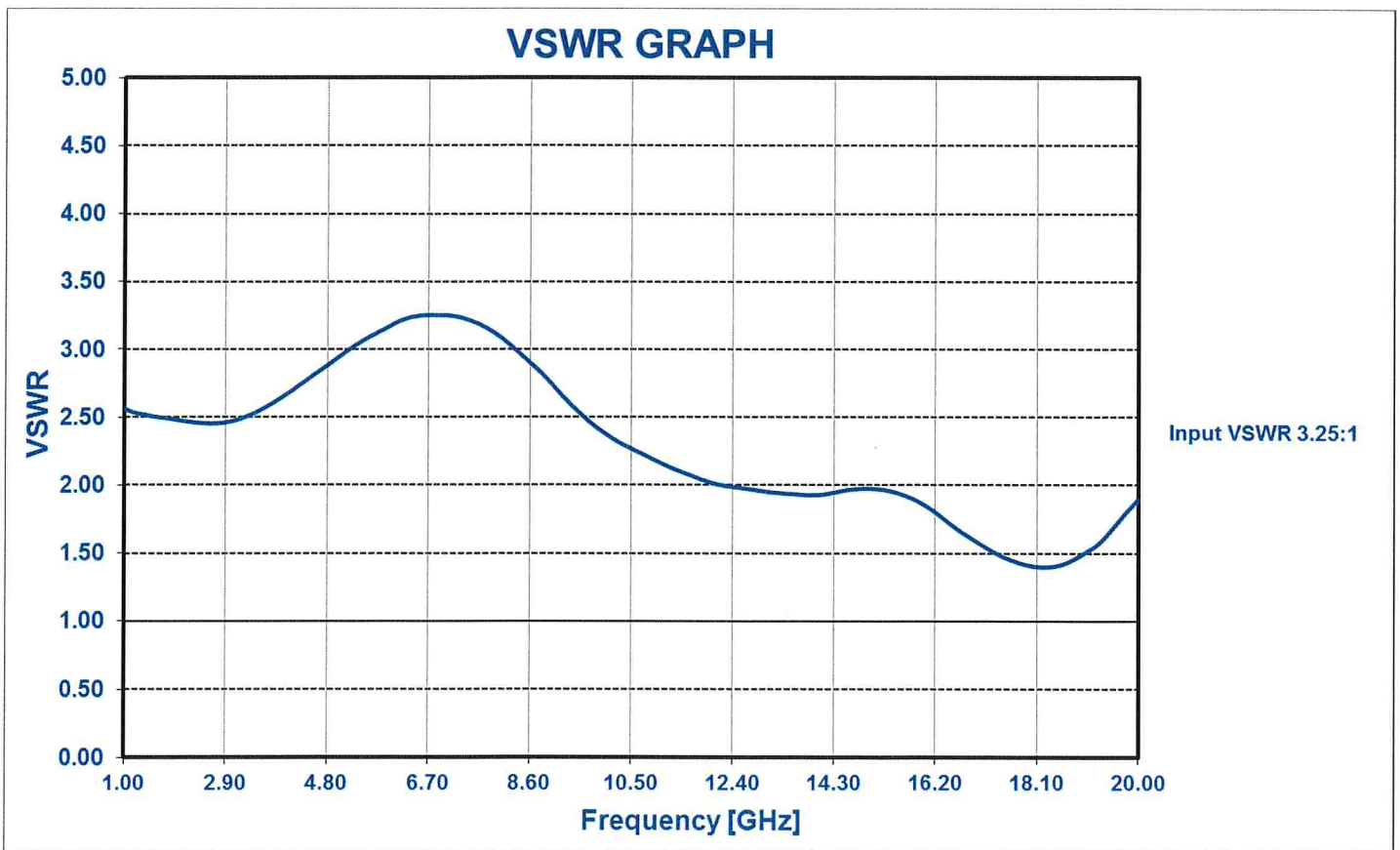




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VSWR





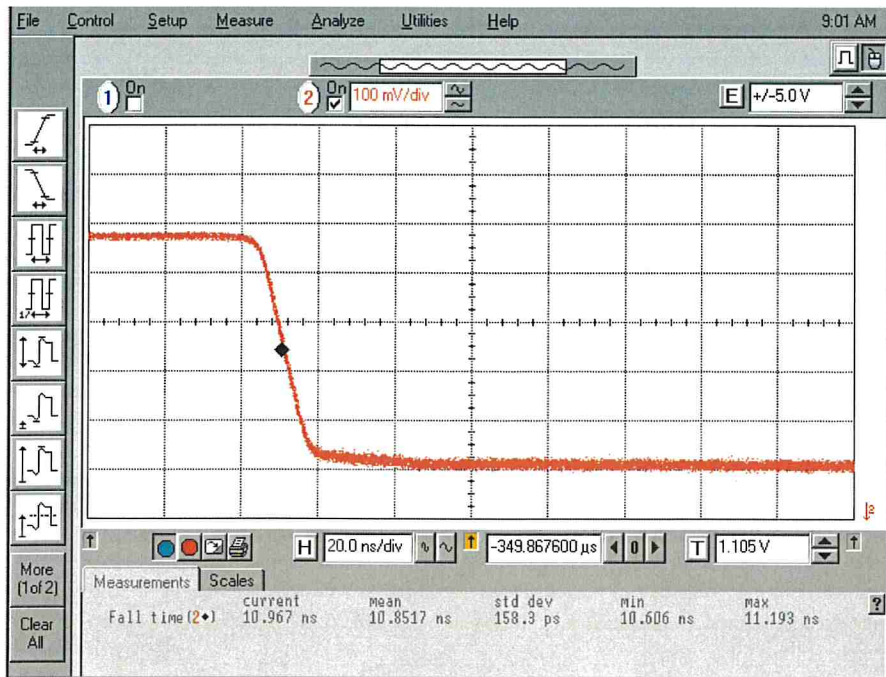
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PL29629/2032

Rise Time



Fall/Recovery Time





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TSS

