



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

PL29608/2032

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL29608/2032

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

Sign: *[Signature]*
 Sign: *[Signature]*
 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	± 0.5 dB	↓	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 1.2 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	1.82:1		
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	14.3 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	7.8 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	-58 dBm		↓
14	Power Supply	+12V @ 100mA Typ	93 mA	Pass		PMI QA3

QA/QC Approval: *Arthur Zimmerman* Date: 8-10-2020



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Transfer @ 25C – Data

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-1G20G-58-12-SFF
TESTED BY: Simon K.
DATE: 08/06/2020
SERIAL NO: PL29608

Test Temp: +25C



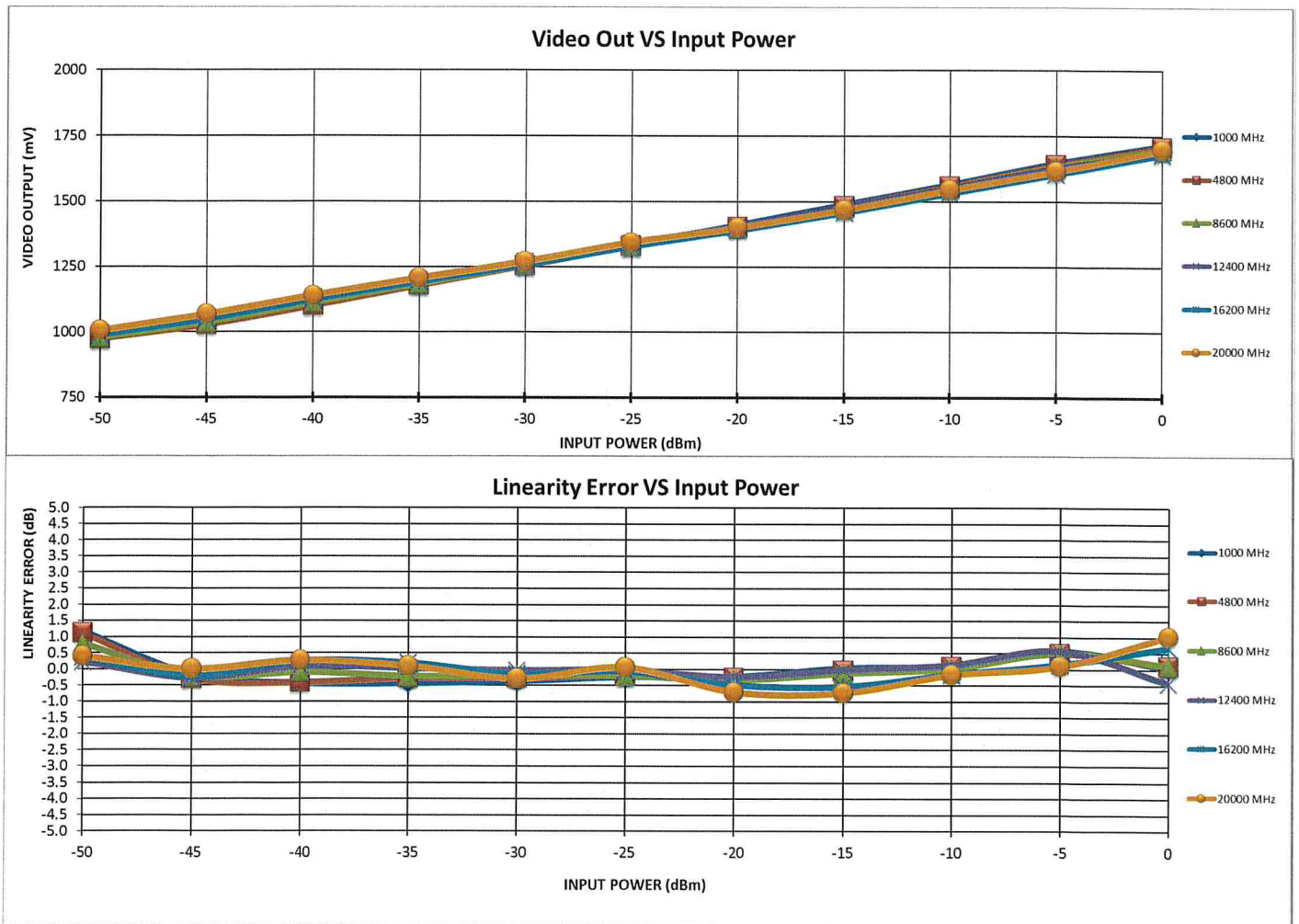
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	980	1035	1106	1181	1257	1334	1409	1488	1564	1646	1713	Measured Value (mV) Error (mV) 1.2
	SLOPE (mV/dB)	17	-3	-7	-7	-6	-4	-4	0	1	8	1	
		1.16	-0.17	-0.44	-0.44	-0.37	-0.24	-0.24	0.03	0.10	0.57	0.03	
4800 MHz	INTERCEPT (mV)	974	1028	1101	1178	1253	1329	1403	1481	1558	1639	1708	Measured Value (mV) Error (mV) 1.1
	SLOPE (mV/dB)	17	-4	-6	-4	-4	-3	-4	-1	1	7	1	
		1.11	-0.29	-0.42	-0.28	-0.27	-0.20	-0.26	-0.06	0.08	0.49	0.09	
8600 MHz	INTERCEPT (mV)	979	1037	1112	1183	1256	1329	1400	1476	1551	1631	1698	Measured Value (mV) Error (mV) 0.8
	SLOPE (mV/dB)	11	-3	-1	-3	-3	-3	-5	-2	0	7	2	
		0.79	-0.24	-0.09	-0.22	-0.21	-0.21	-0.34	-0.12	0.02	0.51	0.11	
12400 MHz	INTERCEPT (mV)	993	1056	1131	1200	1269	1339	1406	1479	1551	1627	1683	Measured Value (mV) Error (mV) 0.6
	SLOPE (mV/dB)	3	-4	1	0	-1	0	-3	0	2	8	-6	
		0.22	-0.28	0.09	0.02	-0.04	-0.03	-0.24	-0.02	0.13	0.57	-0.43	
16200 MHz	INTERCEPT (mV)	989	1050	1125	1193	1257	1327	1390	1458	1532	1605	1681	Measured Value (mV) Error (mV) 0.7
	SLOPE (mV/dB)	5	-3	3	3	-2	-1	-7	-7	-2	2	9	
		0.36	-0.21	0.25	0.19	-0.16	-0.07	-0.49	-0.54	-0.16	0.15	0.67	
20000 MHz	INTERCEPT (mV)	1005	1068	1140	1206	1269	1342	1400	1468	1544	1616	1697	Measured Value (mV) Error (mV) 1.0
	SLOPE (mV/dB)	5	0	4	1	-4	1	-10	-10	-2	1	14	
		0.40	0.00	0.27	0.10	-0.29	0.05	-0.71	-0.74	-0.18	0.09	1.01	
	Average Slope (mV/dB)	1.1	1.4	1.4	1	0.6	0.5	0.7	1.1	1.1	1.5	1.1	Flatness = ± 0.5



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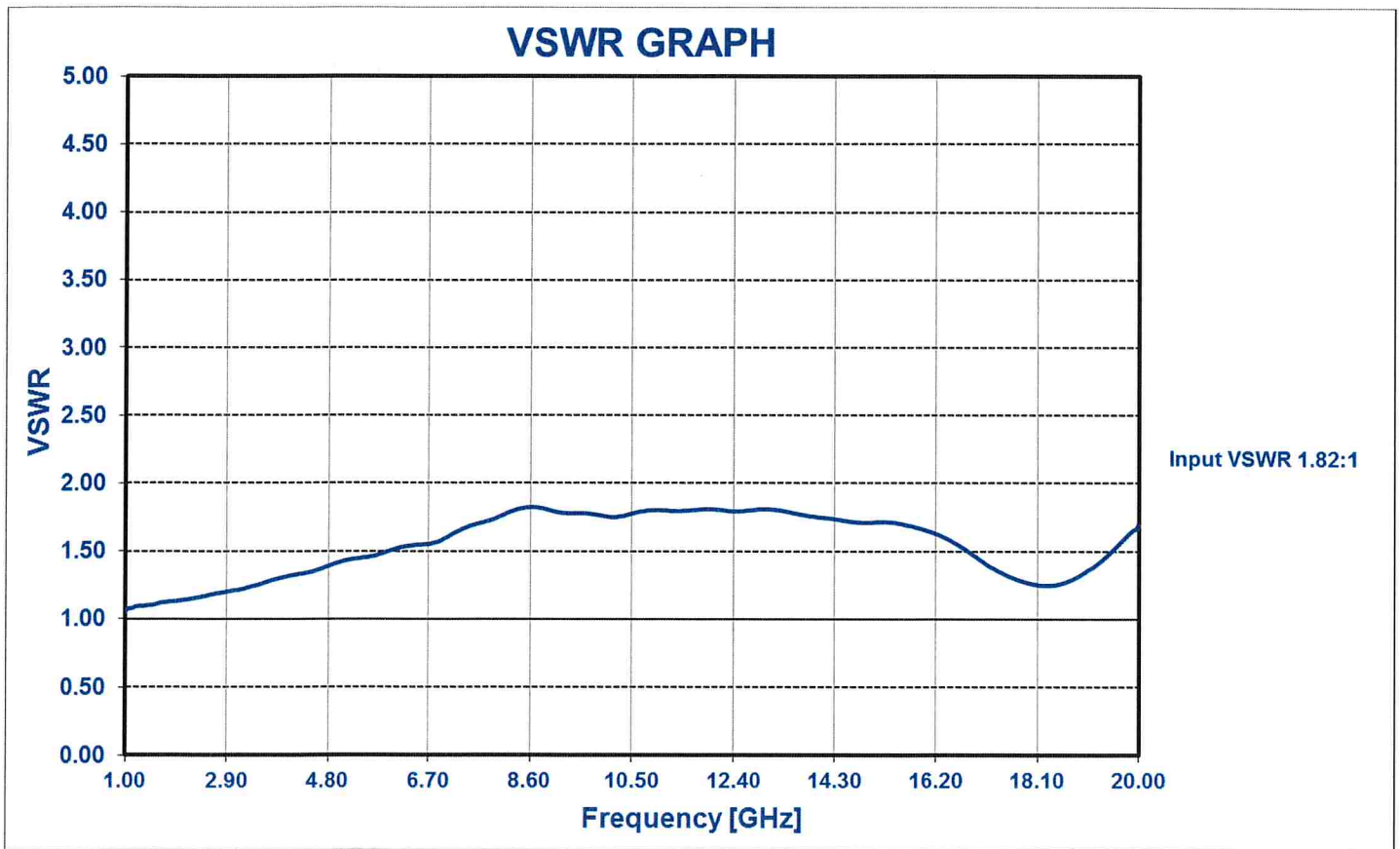




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VSWR





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Rise Time



Fall/Recovery Time





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TSS

