



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

PL29628/2032

Tested By: Simon K. Sign: *SK*
 QA/QC By: Arthur Z. Sign: *AZ*
 Temperature: +25°C
 Date: 08/06/2020
 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	± 0.55 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	2.95:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	0.9 to 1.6 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	14.0 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	6.6 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	8.4 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	-58 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: PL29628														
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)	
		952	1005	1073	1146	1220	1297	1370	1448	1521	1601	1666	1.2	
		18	-2	-7	-8	-7	-3	-3	2	1	8	0		
		1.24	-0.14	-0.50	-0.51	-0.46	-0.20	-0.21	0.12	0.10	0.57	0.01		
4800 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		947	998	1069	1143	1217	1292	1365	1441	1517	1595	1661	1.2	
		18	-4	-7	-6	-5	-3	-3	0	3	7	0		
		1.21	-0.30	-0.45	-0.39	-0.33	-0.21	-0.22	-0.02	0.18	0.51	0.02		
9600 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		951	1005	1077	1147	1218	1291	1361	1436	1508	1586	1651	1.0	
		14	-4	-3	-4	-4	-3	-4	0	1	7	1		
		0.95	-0.26	-0.21	-0.30	-0.31	-0.19	-0.28	-0.02	0.04	0.51	0.07		
12400 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		965	1025	1097	1164	1233	1301	1367	1438	1507	1581	1636	0.5	
		4	-4	0	-1	0	0	-2	1	1	7	-6		
		0.31	-0.28	0.00	-0.08	-0.01	-0.02	-0.17	0.04	0.10	0.54	-0.42		
16200 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		958	1015	1087	1154	1218	1287	1349	1416	1486	1556	1629	0.5	
		6	-4	1	1	-2	0	-5	-5	-2	1	7		
		0.46	-0.28	0.09	0.09	-0.13	0.01	-0.36	-0.36	-0.14	0.09	0.53		
20000 MHz	INTERCEPT (mV)												Measured Value (mV)	
	SLOPE (mV/dB)												Error (mV)	
		973	1033	1104	1169	1231	1304	1362	1428	1501	1570	1651	1.0	
		6	-1	3	1	-4	2	-7	-9	-3	-1	13		
		0.45	-0.08	0.21	0.06	-0.32	0.12	-0.55	-0.63	-0.19	-0.05	0.99		
	Average Slope (mV/dB)												Flatness = ± 0.55	
		1	1.3	1.3	1	0.6	0.6	0.8	1.2	1.3	1.7	1.4		

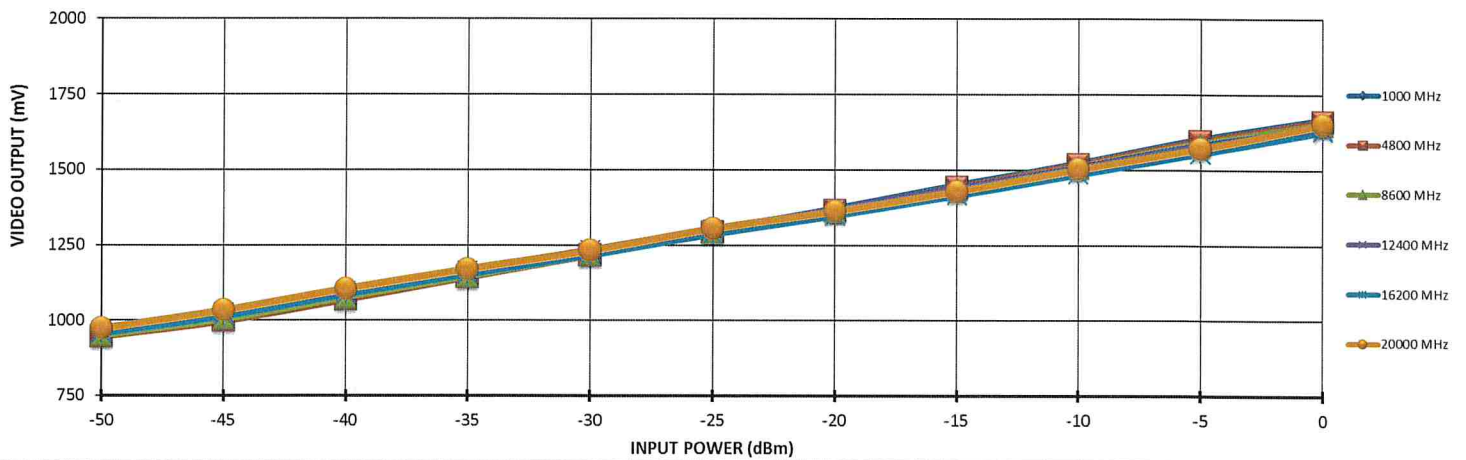


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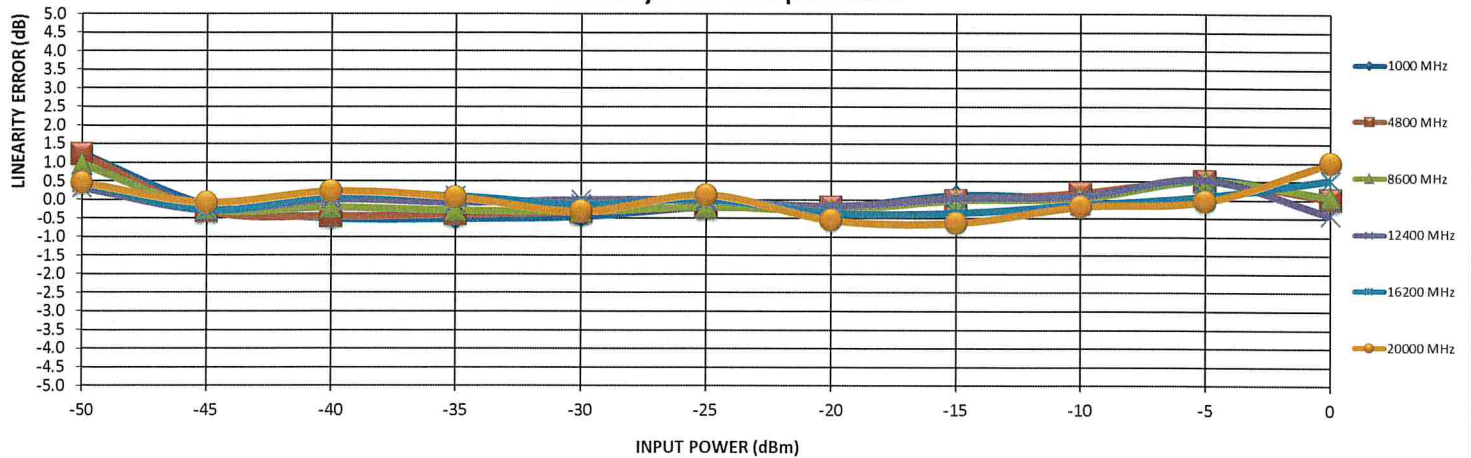
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Transfer @ 25C – Plot

Video Out VS Input Power



Linearity Error VS Input Power

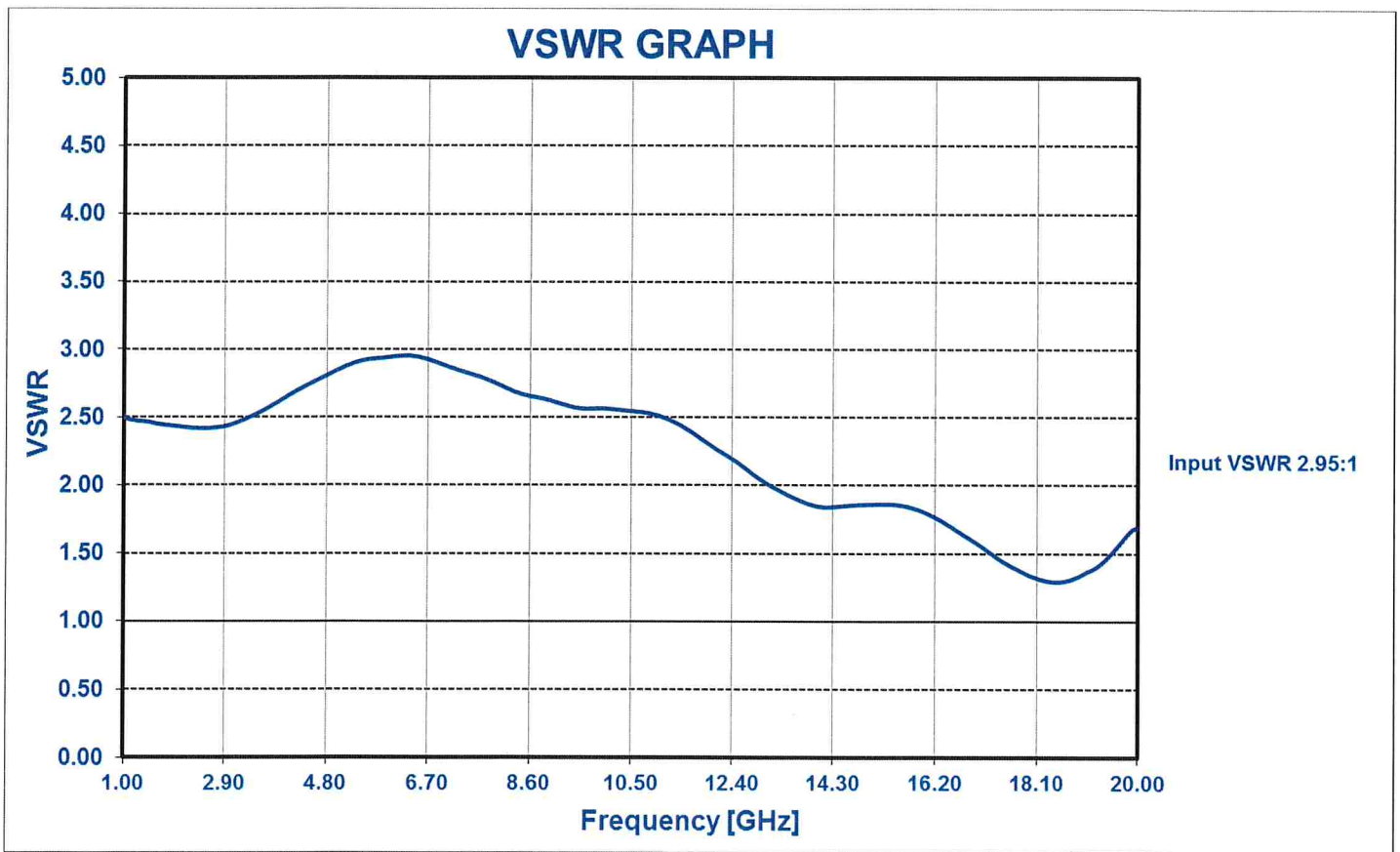




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VSWR

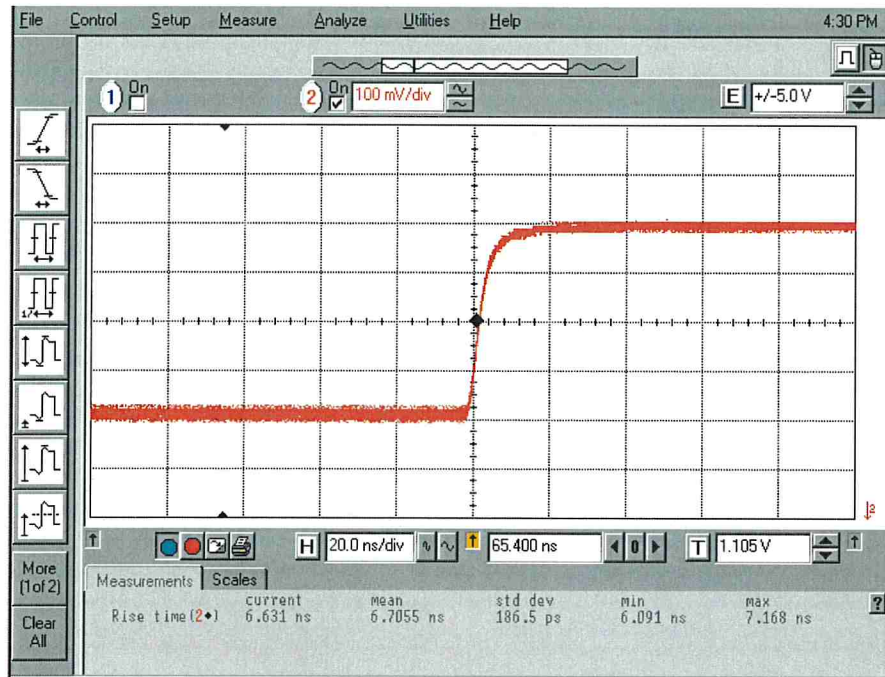




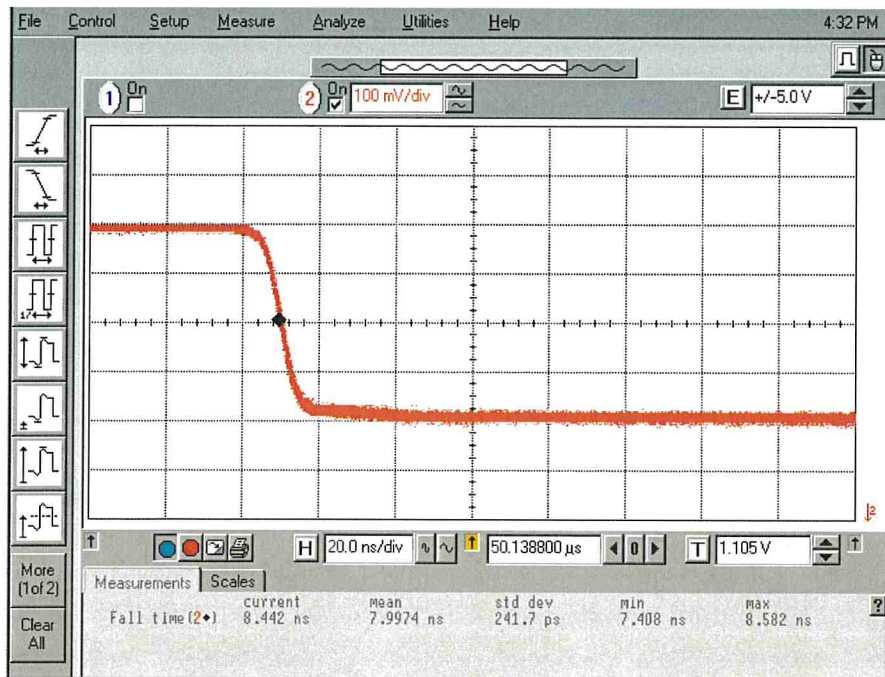
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Rise Time



Fall/Recovery Time





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TSS

