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

PL29626/2032

Customer: [redacted]

Serial No: PL29626/2032

Tested By: Simon K. Sign: [signature]
QA/QC By: Arthur Z. Sign: [signature]
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**	±0.6 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	**See Plot**	± 1.4 dB Max ± 1.0 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**	3.30:1	
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**	14.8 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	**See Plot**	6.9 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	**See Plot**	8.3 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 Zimerman **Date:** 8-7-2020

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Transfer @ 25C – Data

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-1G20G-58-12-SFF
TESTED BY: Simon K. **Test Temp: +25C**
DATE: 08/06/2020
SERIAL NO: PL29626

Frequency			-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	1725	967	1022	1094	1171	1248	1330	1408	1493	1572	1657	1726	Measured Value (mV)
	SLOPE (mV/dB)	15.6	21	-2	-7	-8	-9	-5	-5	2	3	10	1	Error (mV)
			1.37	-0.10	-0.48	-0.54	-0.60	-0.34	-0.33	0.12	0.19	0.64	0.07	1.4
4800 MHz	INTERCEPT (mV)	1717.5	961	1015	1089	1168	1245	1324	1402	1483	1566	1649	1719	Measured Value (mV)
	SLOPE (mV/dB)	15.5	20	-3	-7	-6	-7	-5	-5	-2	4	9	1	Error (mV)
			1.30	-0.22	-0.46	-0.38	-0.42	-0.33	-0.31	-0.10	0.24	0.59	0.09	1.3
8600 MHz	INTERCEPT (mV)	1707.3	968	1026	1102	1175	1249	1326	1400	1480	1559	1641	1708	Measured Value (mV)
	SLOPE (mV/dB)	15.1	15	-3	-2	-5	-6	-4	-6	-1	2	9	1	Error (mV)
			0.96	-0.19	-0.15	-0.31	-0.40	-0.29	-0.38	-0.07	0.17	0.60	0.05	1.0
12400 MHz	INTERCEPT (mV)	1694.1	982	1046	1121	1190	1261	1333	1402	1479	1553	1632	1689	Measured Value (mV)
	SLOPE (mV/dB)	14.4	6	-2	1	-2	-3	-2	-5	0	2	10	-5	Error (mV)
			0.39	-0.15	0.07	-0.12	-0.17	-0.16	-0.35	0.01	0.17	0.67	-0.35	0.7
16200 MHz	INTERCEPT (mV)	1670.8	975	1036	1110	1180	1245	1317	1383	1453	1528	1604	1680	Measured Value (mV)
	SLOPE (mV/dB)	14.1	7	-2	2	1	-4	-2	-7	-7	-2	4	9	Error (mV)
			0.53	-0.14	0.13	0.10	-0.27	-0.16	-0.46	-0.48	-0.15	0.25	0.66	0.7
20000 MHz	INTERCEPT (mV)	1688.2	991	1054	1128	1195	1259	1335	1396	1467	1546	1620	1702	Measured Value (mV)
	SLOPE (mV/dB)	14.1	8	0	4	0	-6	-1	-10	-10	-1	2	14	Error (mV)
			0.55	0.02	0.27	0.02	-0.44	-0.05	-0.72	-0.69	-0.09	0.16	0.98	1.0
	Average Slope (mV/dB)	14.8	1	1.4	1.4	0.9	0.6	0.6	0.9	1.4	1.5	1.8	1.6	Flatness = ± 0.6

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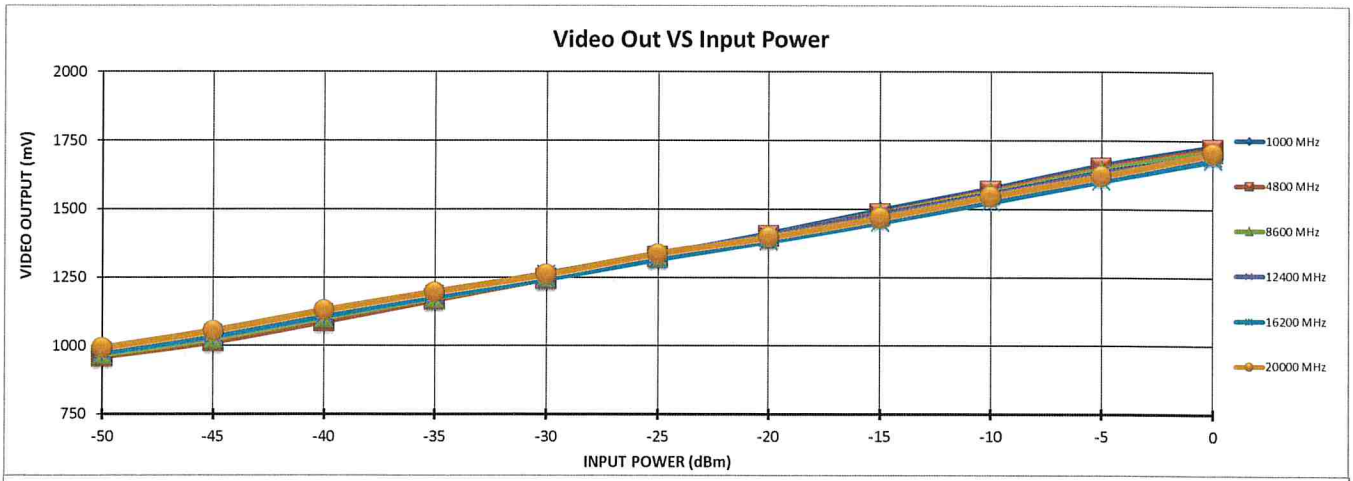
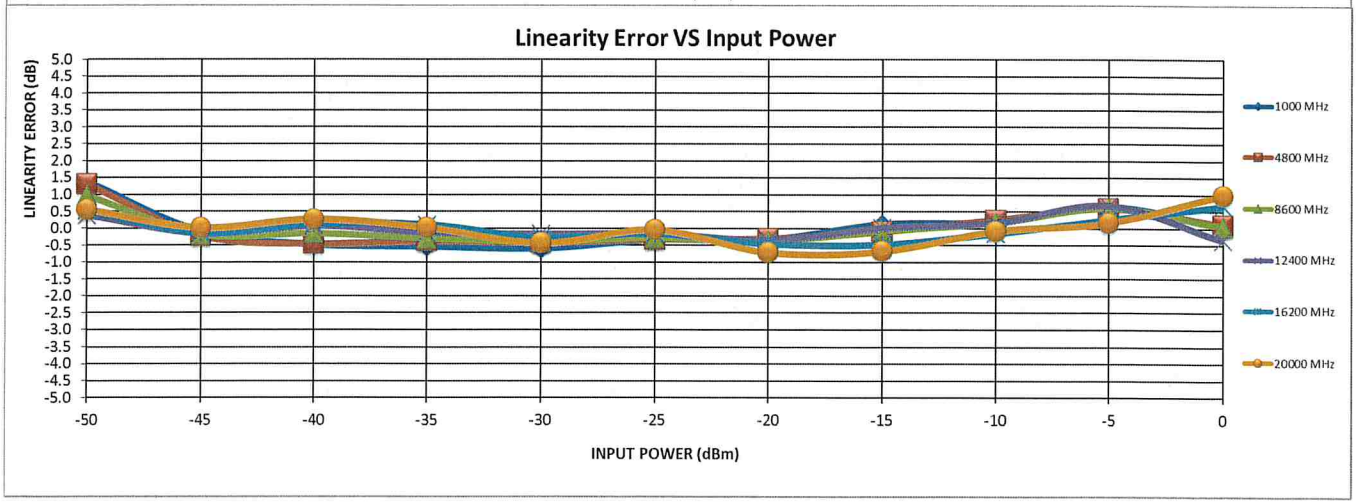
Transfer @ 25C – Plot





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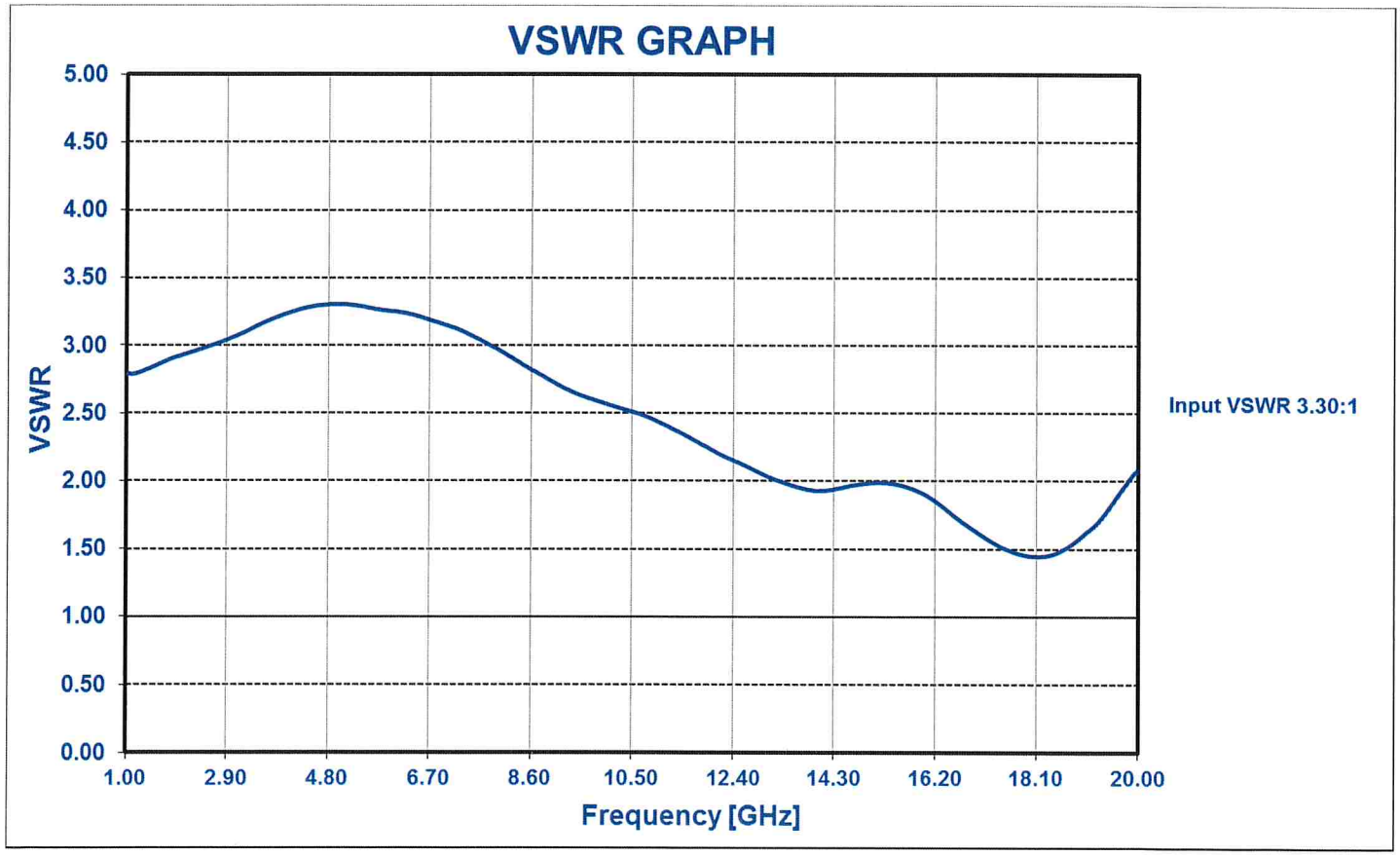
VSWR



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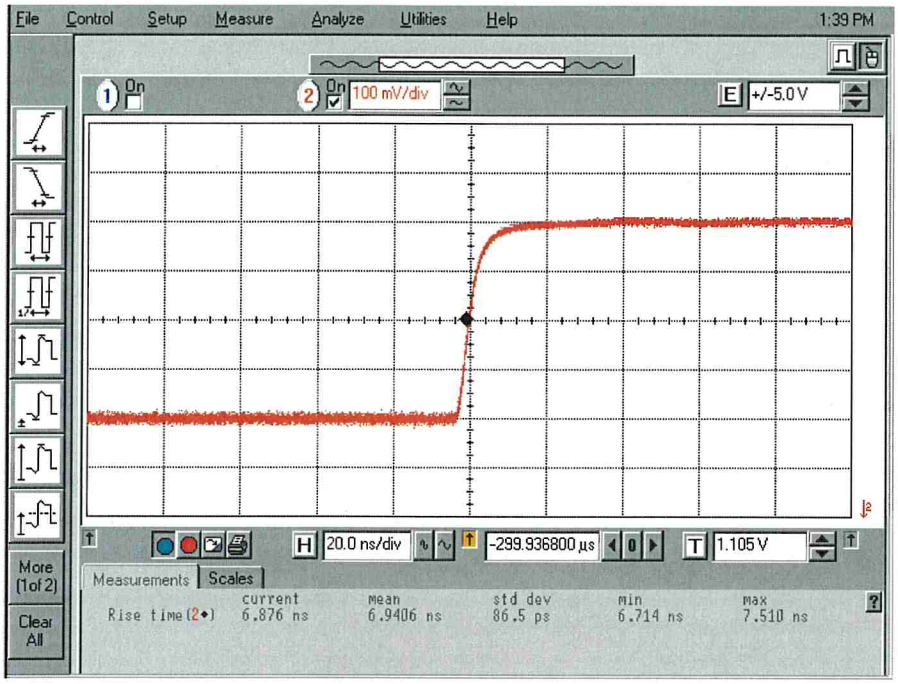
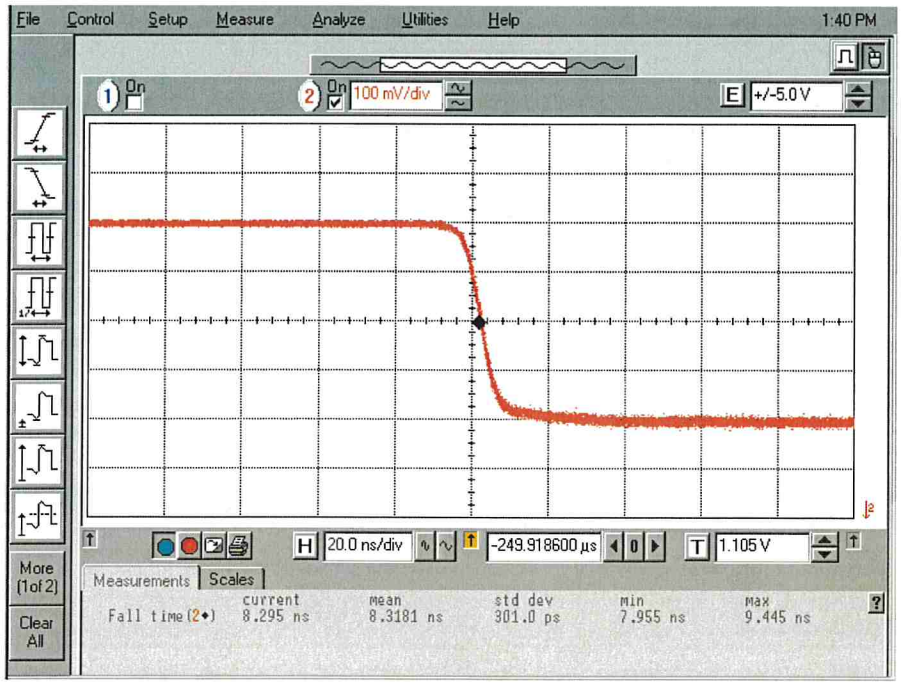
Rise Time



Fall/Recovery Time



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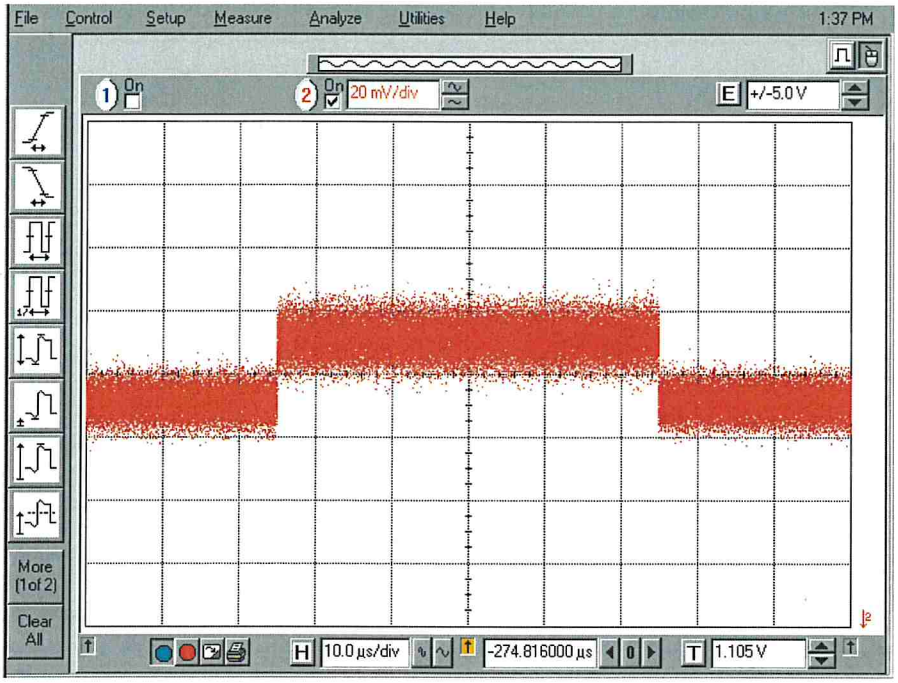
TSS



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