



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

PL30892/2051

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-1G20G-58-12-SFF  
 Serial No: PL30892/2051

Tested By: Glen G. Sign: GG  
 QA/QC By: AZ Sign: AZ  
 Temperature: +25°C  
 Date: 12/14/2020  
 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	± 2.1 dB Max ± 1.5 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	3.5:1	
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	4.8 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	18.1 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	-55 dBm	
14	Power Supply	+12V @ 100mA Typ	93 mA	Pass	PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 12-17-2020



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**Transfer @ 25C – Data**

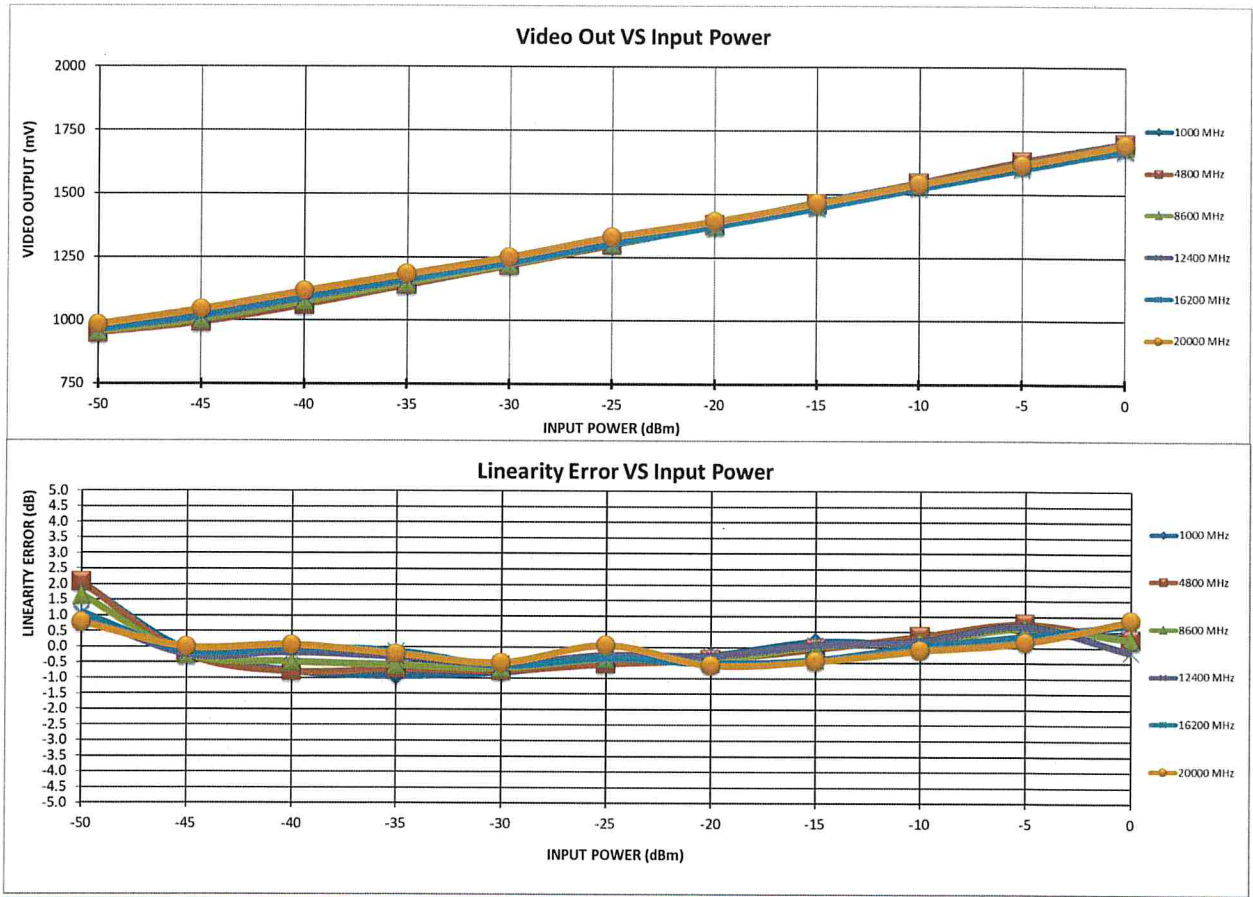
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
<b>1000 MHz</b>	INTERCEPT (mV)	955 999 1066 1141 1220 1303 1383 1467 1544 1629 1701											Measured Value (mV)
	SLOPE (mV/dB)	32 -2 -12 -14 -13 -7 -4 3 2 10 5											Error (mV)
		2.04 -0.11 -0.78 -0.92 -0.81 -0.44 -0.26 0.17 0.15 0.66 0.31											2.0
<b>4800 MHz</b>	INTERCEPT (mV)	951 993 1062 1141 1218 1299 1379 1462 1546 1630 1700											Measured Value (mV)
	SLOPE (mV/dB)	32 -4 -12 -11 -12 -8 -6 -1 6 12 4											Error (mV)
		2.07 -0.23 -0.79 -0.70 -0.75 -0.54 -0.39 -0.05 0.35 0.76 0.26											2.1
<b>8600 MHz</b>	INTERCEPT (mV)	956 1003 1075 1149 1223 1303 1378 1460 1538 1620 1690											Measured Value (mV)
	SLOPE (mV/dB)	25 -4 -7 -9 -10 -6 -6 0 3 9 4											Error (mV)
		1.64 -0.24 -0.47 -0.57 -0.67 -0.37 -0.41 0.03 0.19 0.62 0.26											1.6
<b>12400 MHz</b>	INTERCEPT (mV)	965 1019 1092 1162 1231 1307 1379 1456 1530 1609 1669											Measured Value (mV)
	SLOPE (mV/dB)	15 -3 -3 -5 -8 -4 -4 1 3 10 -2											Error (mV)
		1.02 -0.24 -0.18 -0.32 -0.54 -0.26 -0.27 0.07 0.20 0.68 -0.16											1.0
<b>16200 MHz</b>	INTERCEPT (mV)	966 1020 1093 1163 1228 1303 1372 1445 1523 1599 1676											Measured Value (mV)
	SLOPE (mV/dB)	15 -2 -1 -2 -9 -5 -7 -6 1 5 11											Error (mV)
		1.08 -0.14 -0.04 -0.14 -0.60 -0.35 -0.52 -0.42 0.04 0.35 0.74											1.1
<b>20000 MHz</b>	INTERCEPT (mV)	984 1044 1116 1183 1250 1329 1391 1464 1540 1615 1696											Measured Value (mV)
	SLOPE (mV/dB)	11 0 1 -3 -7 1 -8 -7 -2 2 12											Error (mV)
		0.78 0.00 0.06 -0.23 -0.51 0.04 -0.59 -0.46 -0.11 0.16 0.86											0.9
<b>Average Slope (mV/dB)</b>		1.1	1.8	1.9	1.5	1.1	1	0.7	0.8	0.8	1.1	1.1	Flatness = ± 0.6



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Transfer @ 25C – Plot

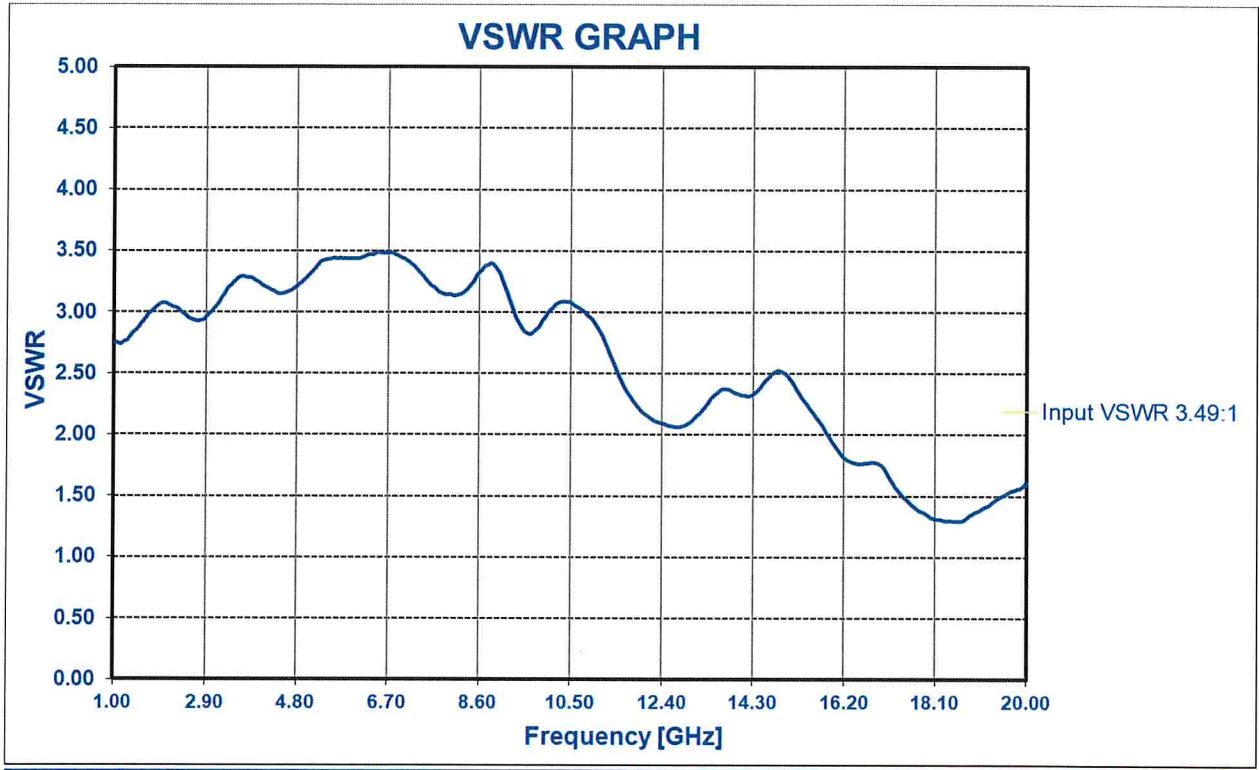




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VSWR





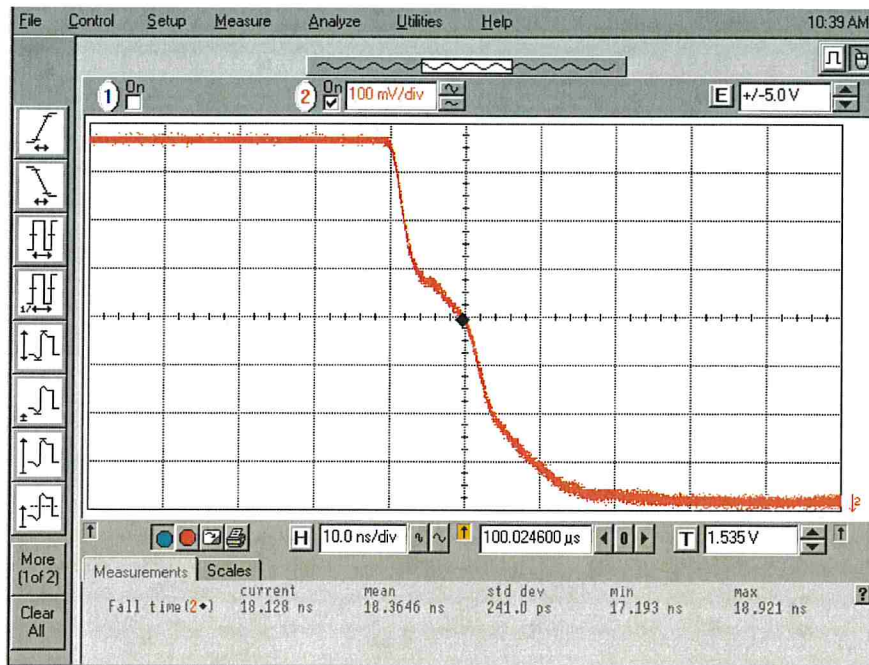
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## Rise Time



## Fall/Recovery Time





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TSS

