



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

PL30889/2051

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL30889/2051

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	±0.5 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	± 1.6 dB Max ± 1.2 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	14.4 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	4.5 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	18.0 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	-56 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

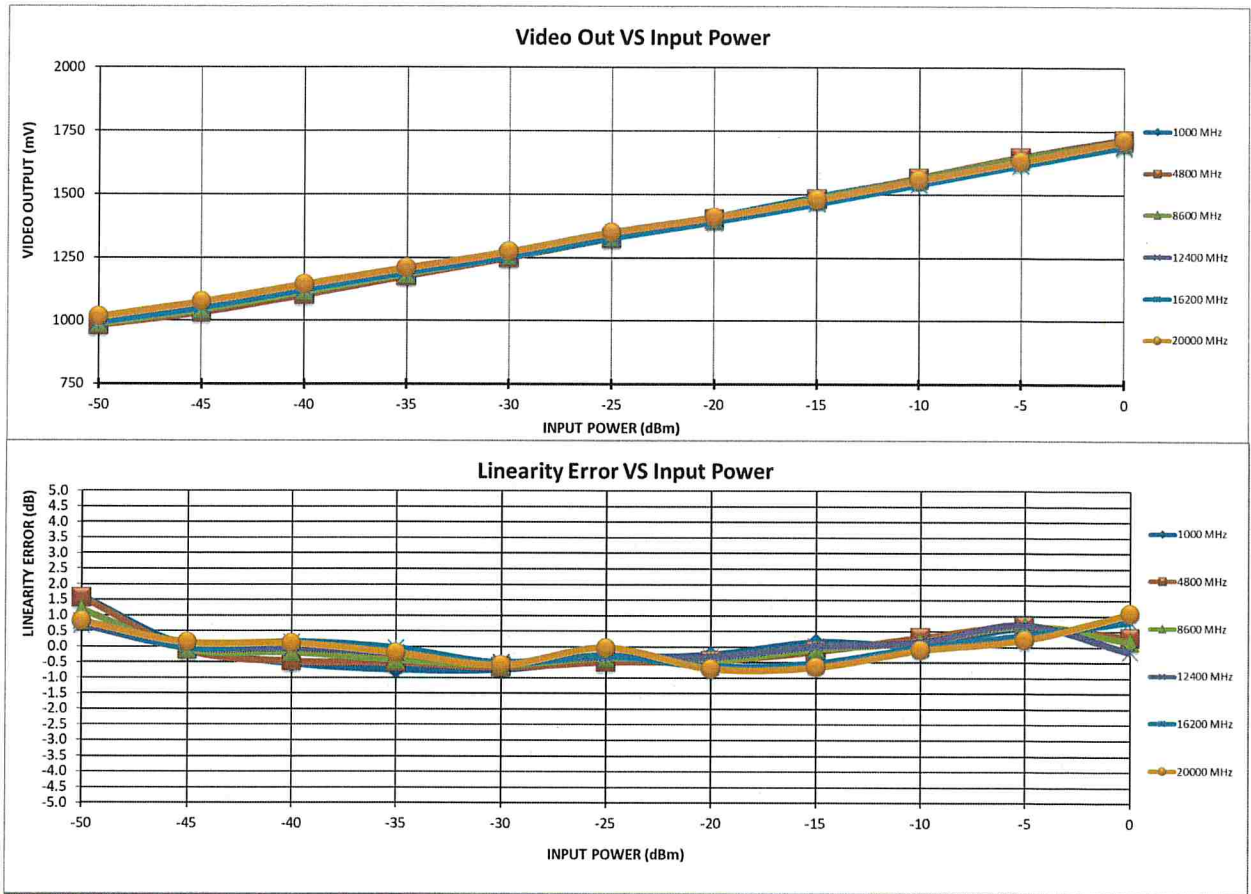
LOG TRANSFER VS FREQUENCY														
MODEL: SDLVA-1G20G-58-12-SFF												Test Temp: +25C		
TESTED BY: Glen G.														
DATE: 12/14/2020														
SERIAL NO: PL30889														
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
1000 MHz	INTERCEPT (mV)	986 1037 1104 1176 1251 1331 1408 1489 1563 1646 1716											Measured Value (mV)	
	SLOPE (mV/dB)	24 0 -8 -11 -11 -6 -4 2 1 9 4											Error (mV)	
		1.59 -0.01 -0.54 -0.74 -0.74 -0.40 -0.26 0.14 0.07 0.61 0.28											1.6	
4800 MHz	INTERCEPT (mV)	981 1031 1101 1176 1249 1327 1403 1483 1565 1646 1716											Measured Value (mV)	
	SLOPE (mV/dB)	24 -2 -7 -8 -10 -7 -7 -2 4 10 5											Error (mV)	
		1.57 -0.11 -0.47 -0.50 -0.66 -0.49 -0.45 -0.14 0.29 0.66 0.30											1.6	
8600 MHz	INTERCEPT (mV)	988 1043 1115 1185 1256 1333 1405 1484 1561 1642 1708											Measured Value (mV)	
	SLOPE (mV/dB)	17 -1 -3 -6 -9 -6 -7 -1 2 10 3											Error (mV)	
		1.17 -0.09 -0.19 -0.43 -0.59 -0.35 -0.45 -0.08 0.17 0.68 0.17											1.2	
12400 MHz	INTERCEPT (mV)	998 1058 1128 1196 1262 1335 1405 1480 1552 1630 1688											Measured Value (mV)	
	SLOPE (mV/dB)	10 -1 -1 -3 -7 -4 -4 0 2 10 -2											Error (mV)	
		0.69 -0.04 -0.05 -0.21 -0.50 -0.30 -0.32 0.02 0.15 0.71 -0.16											0.7	
16200 MHz	INTERCEPT (mV)	995 1053 1125 1192 1255 1328 1393 1464 1541 1616 1692											Measured Value (mV)	
	SLOPE (mV/dB)	11 0 2 -1 -7 -4 -9 -8 0 5 11											Error (mV)	
		0.81 -0.03 0.14 -0.06 -0.54 -0.30 -0.64 -0.54 -0.02 0.36 0.81											0.8	
20000 MHz	INTERCEPT (mV)	1015 1075 1144 1209 1273 1350 1410 1480 1557 1631 1712											Measured Value (mV)	
	SLOPE (mV/dB)	11 2 1 -3 -8 -1 -10 -9 -2 3 15											Error (mV)	
		0.80 0.13 0.11 -0.21 -0.59 -0.04 -0.71 -0.66 -0.11 0.22 1.07											1.1	
	Average Slope (mV/dB)	1.2 1.6 1.5 1.2 0.9 0.8 0.6 0.9 0.9 1.1 1											Flatness = ± 0.5	
		<small> 986 1037 1104 1176 1251 1331 1408 1489 1563 1646 1716 1015 1075 1144 1209 1273 1350 1410 1480 1557 1631 1712 </small>												



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Transfer @ 25C – Plot

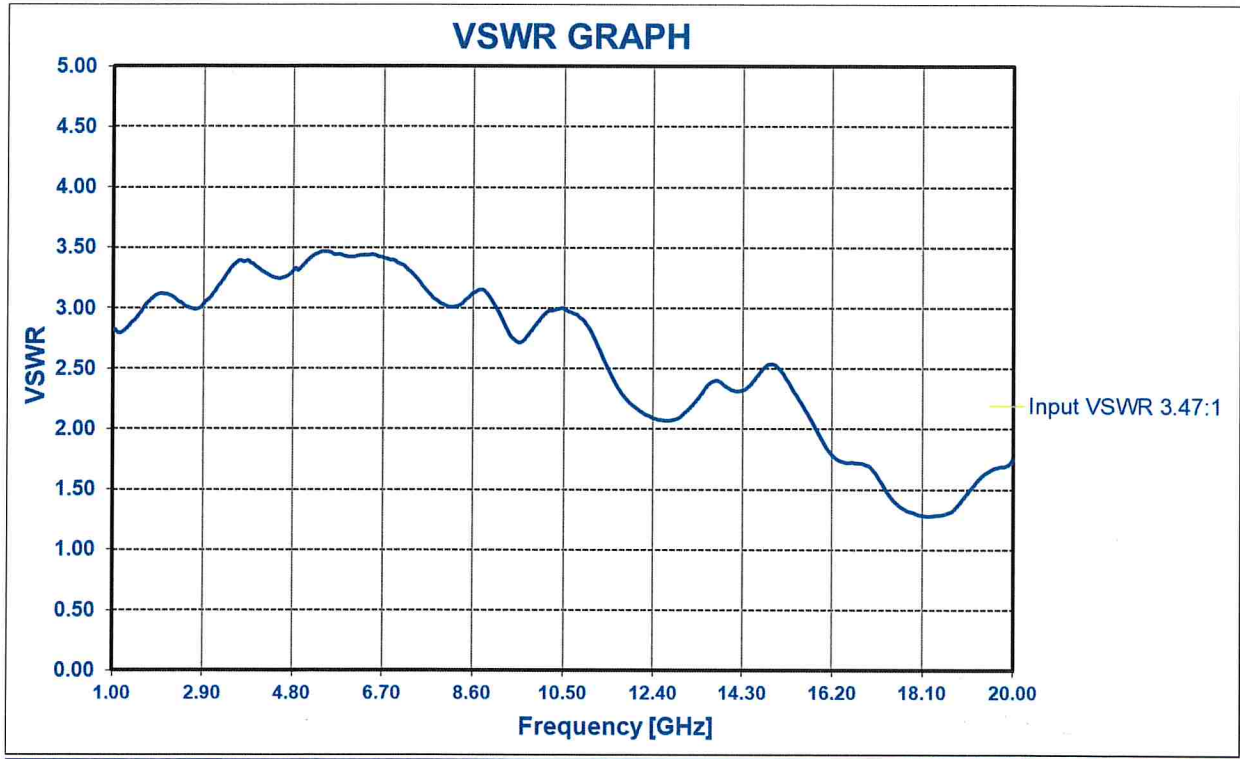




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VSWR

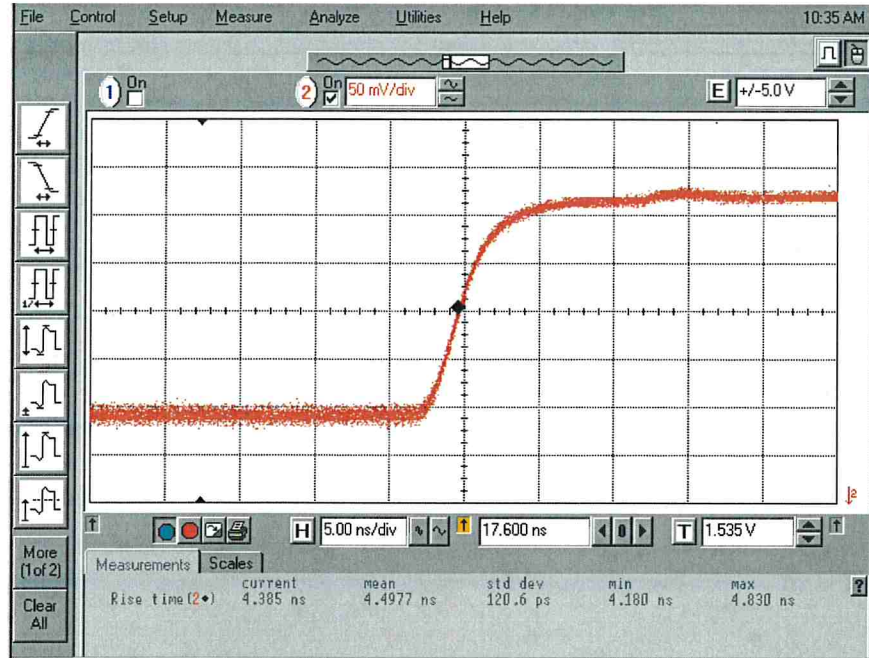




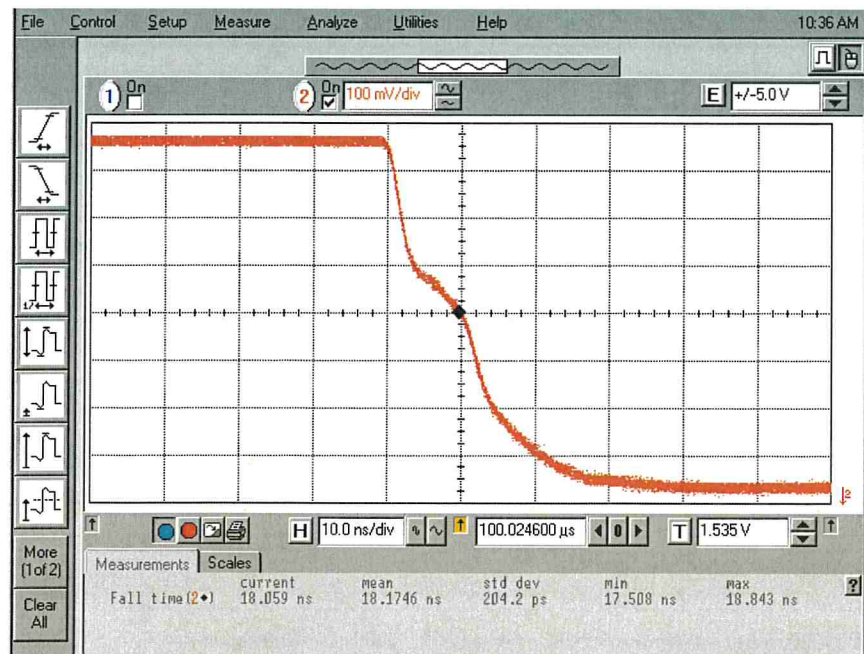
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Rise Time



Fall/Recovery Time





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TSS

