



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

PL29624/2032

Customer: _____
 SO No: _____
 Model No: **SDLVA-1G20G-58-12-SFF**
 Serial No: **PL29624/2032**

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	±0.65 dB	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±1.6 dB Max ±1.1 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	3.36:1	
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	14.6 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	6.4 ns	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	12 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
TESTED BY: Simon K.
DATE: 08/06/2020
SERIAL NO: PL29624

Test Temp: +25C



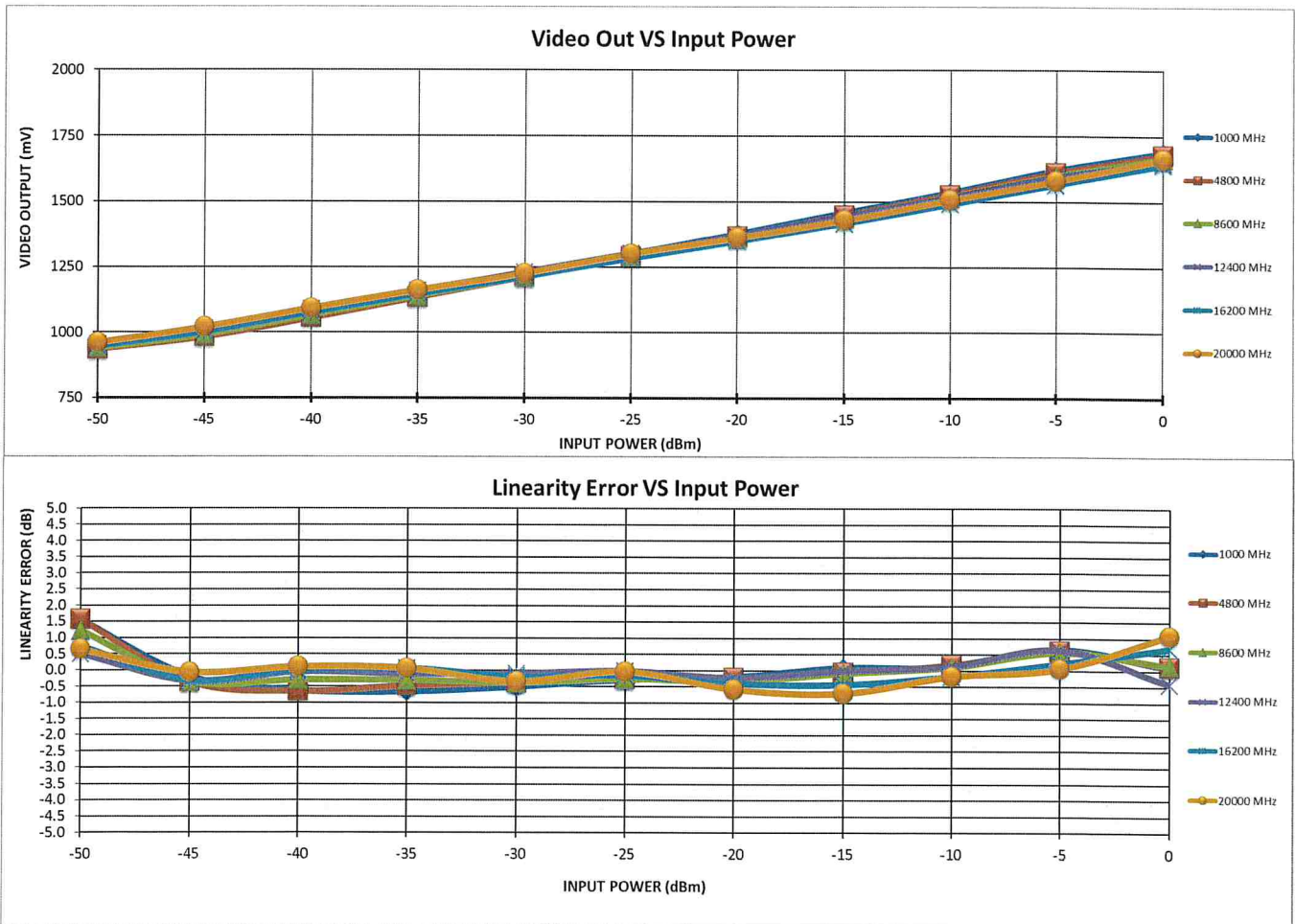
Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	943 993 1063 1139 1218 1298 1376 1457 1534 1619 1687											Measured Value (mV)
	SLOPE (mV/dB)	24 -3 -10 -10 -8 -4 -3 1 2 10 1											Error (mV)
		1.55 -0.19 -0.62 -0.66 -0.51 -0.29 -0.20 0.08 0.10 0.65 0.09											1.6
4800 MHz	INTERCEPT (mV)	936 983 1055 1134 1212 1290 1367 1446 1526 1609 1678											Measured Value (mV)
	SLOPE (mV/dB)	24 -6 -10 -7 -6 -4 -4 -1 3 9 2											Error (mV)
		1.56 -0.36 -0.65 -0.48 -0.38 -0.27 -0.24 -0.07 0.17 0.60 0.11											1.6
8600 MHz	INTERCEPT (mV)	940 991 1066 1140 1213 1289 1362 1440 1517 1598 1666											Measured Value (mV)
	SLOPE (mV/dB)	18 -5 -4 -5 -6 -4 -5 -1 2 8 2											Error (mV)
		1.21 -0.35 -0.29 -0.31 -0.39 -0.26 -0.34 -0.09 0.10 0.56 0.15											1.2
12400 MHz	INTERCEPT (mV)	954 1013 1088 1158 1229 1301 1369 1443 1516 1594 1650											Measured Value (mV)
	SLOPE (mV/dB)	7 -5 -1 -2 -1 0 -3 0 2 9 -6											Error (mV)
		0.50 -0.34 -0.05 -0.11 -0.10 -0.03 -0.23 -0.01 0.14 0.64 -0.41											0.6
16200 MHz	INTERCEPT (mV)	948 1003 1077 1147 1213 1283 1349 1418 1491 1566 1642											Measured Value (mV)
	SLOPE (mV/dB)	10 -4 0 1 -3 -2 -6 -6 -3 3 9											Error (mV)
		0.73 -0.31 0.02 0.05 -0.19 -0.16 -0.41 -0.44 -0.19 0.21 0.68											0.7
20000 MHz	INTERCEPT (mV)	960 1020 1092 1161 1225 1299 1361 1429 1506 1579 1663											Measured Value (mV)
	SLOPE (mV/dB)	9 -1 2 1 -5 -1 -8 -10 -3 1 15											Error (mV)
		0.64 -0.06 0.11 0.06 -0.35 -0.04 -0.59 -0.71 -0.19 0.05 1.08											1.1
Average Slope (mV/dB)		0.8 1.3 1.3 1 0.6 0.6 1 1.4 1.5 1.9 1.6											Flatness = ± 0.65



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Transfer @ 25C – Plot

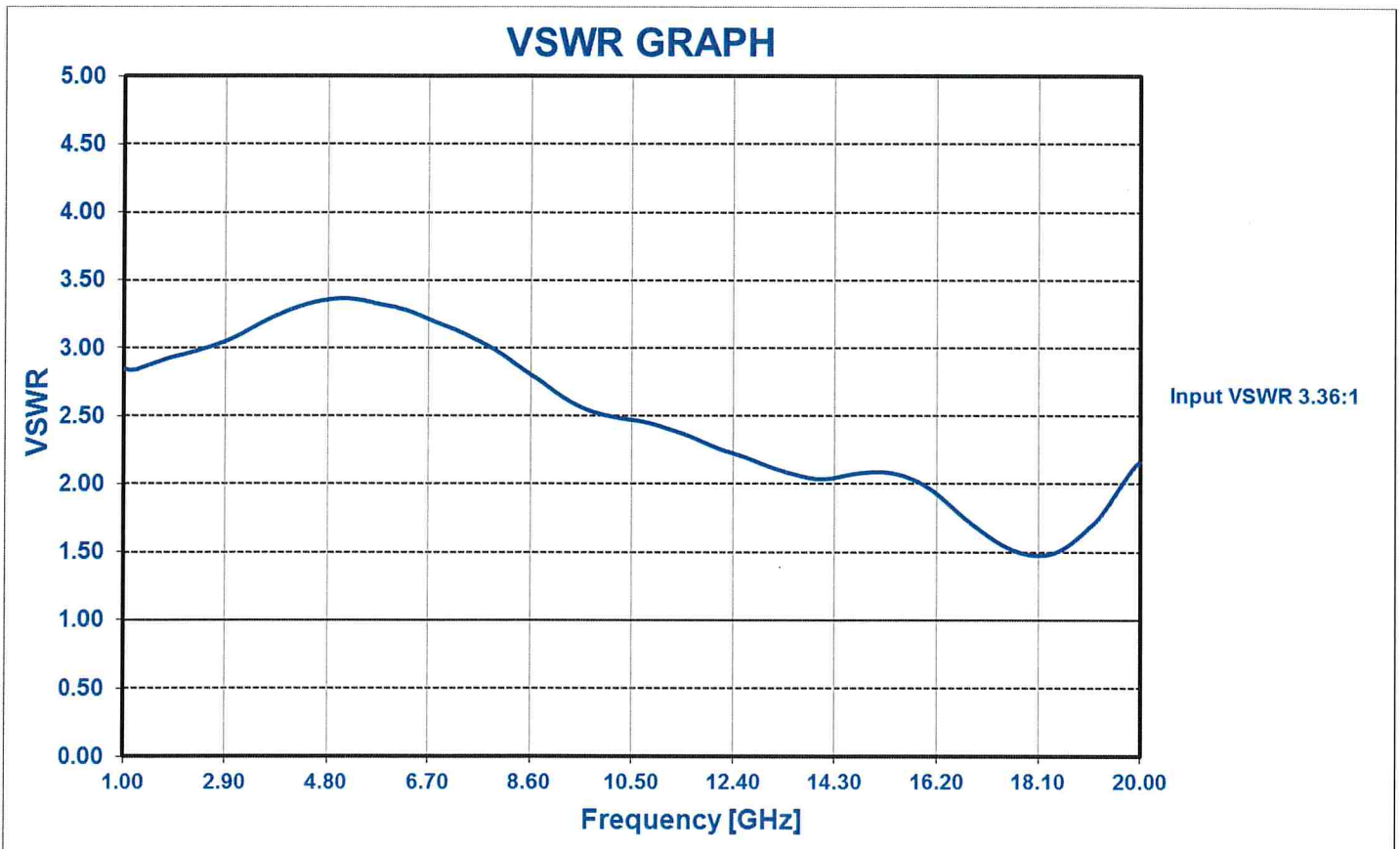




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VSWR

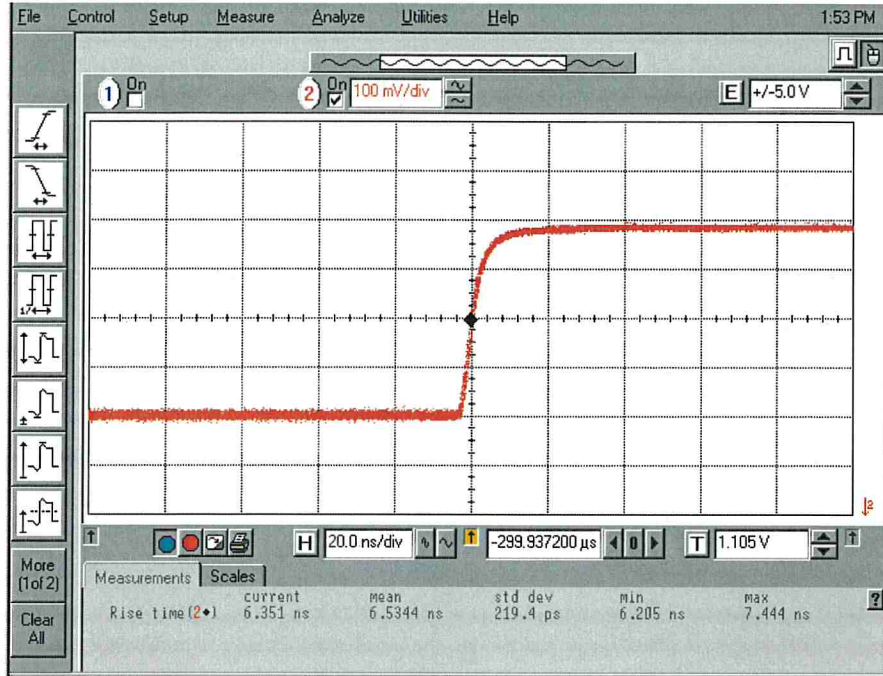




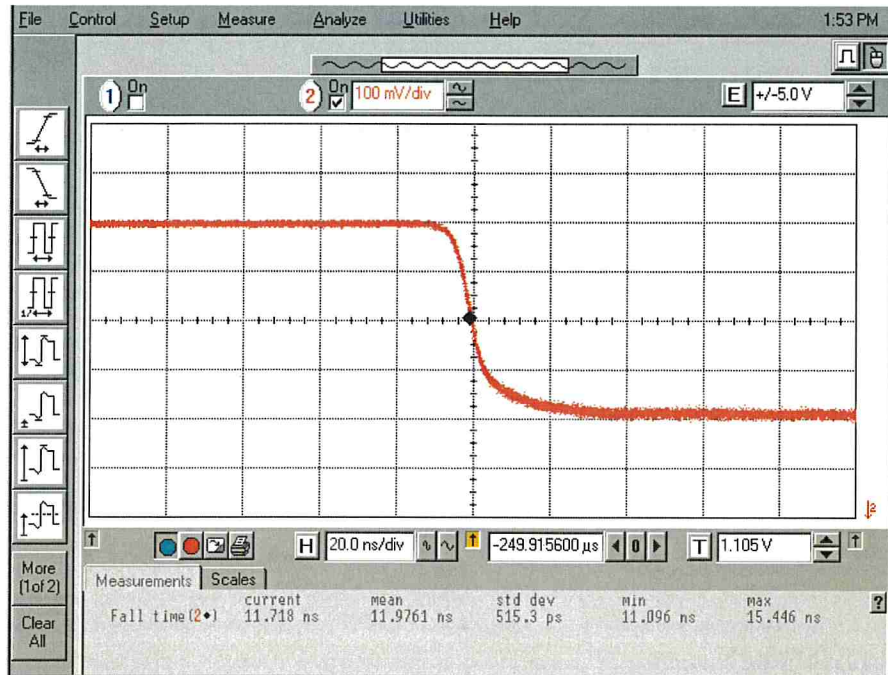
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Rise Time



Fall/Recovery Time





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TSS

