



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

PL40049/2313

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL40049/2313

Tested By: Jojo E. Sign: JE
 Temperature: +25°C Sign: OZ
 Date: 03/29/2023
 Drawing No: 27612160 Rev: A3

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEAS.	TEST RESULT	QA QC	
1	Frequency Range	1 GHz – 20 GHz	-	1 GHz to 20 GHz	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	±2.2 dB Max ±1.6 dB Avg		
4	Log Linearity Over Temp	±1.0 dB Typ. (-50 to 0 dBm @ -55°C to +85°C)	-	Pass		
5	Logging Range	-54 to +5 dBm	-	-50 to +5 dBm		
6	Input VSWR	3.0:1 Typ.	See Plot	3.51:1		
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.930 V to 1.690 V		
8	Slope	14 mV / dB Typ.	See Plot	15.4 mV/dB		
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	3.0 ns		
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	22.5 ns		
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	< 33.2 ns		
12	Propagation Delay	14 ns Typ.	By Design	Pass		
13	TSS	-60 dBm Typ.	See Plot	-54 dBm		↓
14	Power Supply	+12 V @ 100 mA Typ.	-	100 mA		PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 3-29-2023




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PL40049/2313

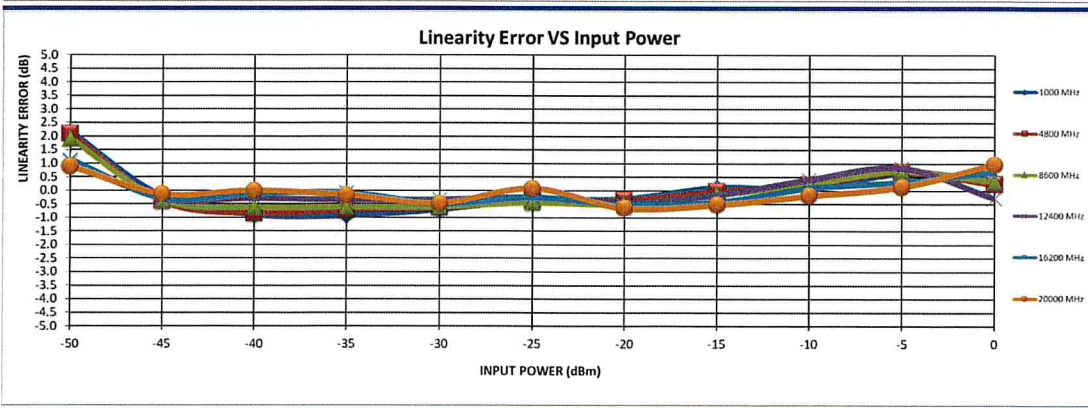
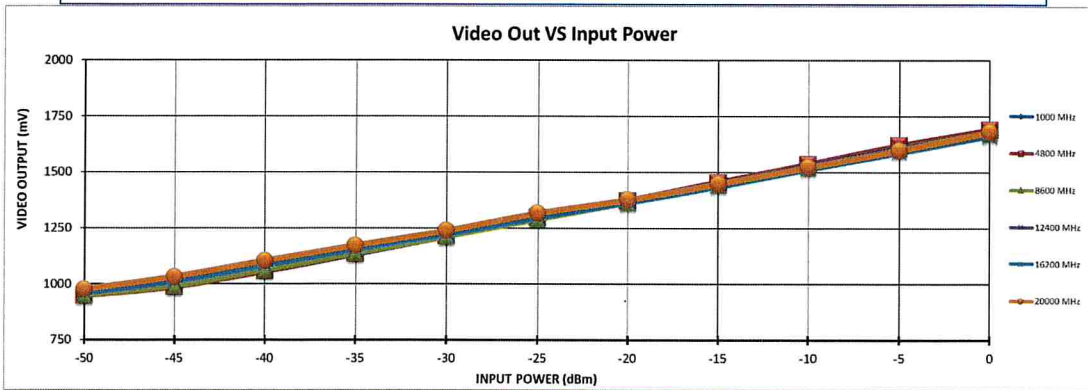
Transfer Response at 25°C

LOG TRANSFER VS FREQUENCY
 MODEL: SDLVA-1G20G-58-12-SFF
 TESTED BY: J. Emperador
 DATE: 03/28/2023
 SERIAL NO: PL40049

Test Temp: +25C
 Vos= 930mV



Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1000 MHz	INTERCEPT (mV)	1683.8											Measured Value (mV)
	SLOPE (mV/dB)	15.3											Error (mV)
		952	992	1058	1134	1214	1296	1373	1456	1532	1617	1690	2.2
		33	-3	-14	-14	-11	-5	-5	2	1	10	6	2.1
		2.17	-0.21	-0.90	-0.93	-0.70	-0.34	-0.31	0.11	0.08	0.64	0.41	1.9
4800 MHz	INTERCEPT (mV)	1686.1											Measured Value (mV)
	SLOPE (mV/dB)	15.4											Error (mV)
		949	988	1058	1137	1215	1296	1373	1455	1536	1620	1690	1.1
		32	-6	-13	-11	-10	-6	-5	0	4	11	4	1.1
		2.08	-0.38	-0.83	-0.70	-0.63	-0.36	-0.36	-0.02	0.24	0.70	0.25	1.0
8600 MHz	INTERCEPT (mV)	1670.9											Measured Value (mV)
	SLOPE (mV/dB)	15.0											Error (mV)
		951	992	1063	1138	1213	1290	1364	1444	1525	1607	1676	1.1
		29	-5	-9	-9	-7	-7	-2	4	11	5	1.1	
		1.91	-0.35	-0.61	-0.60	-0.59	-0.44	-0.50	-0.16	0.25	0.73	0.34	1.0
12400 MHz	INTERCEPT (mV)	1664.8											Measured Value (mV)
	SLOPE (mV/dB)	14.4											Error (mV)
		962	1014	1086	1157	1229	1302	1371	1447	1527	1605	1661	1.1
		16	-4	-4	-5	-5	-4	-6	-2	6	12	-4	1.1
		1.09	-0.29	-0.28	-0.34	-0.33	-0.25	-0.45	-0.16	0.41	0.84	-0.27	1.0
16200 MHz	INTERCEPT (mV)	1655.3											Measured Value (mV)
	SLOPE (mV/dB)	14.1											Error (mV)
		964	1015	1088	1159	1224	1298	1365	1437	1515	1589	1665	1.1
		16	-4	-2	-1	-7	-4	-7	-6	1	4	10	1.1
		1.12	-0.27	-0.11	-0.09	-0.50	-0.26	-0.53	-0.44	0.08	0.31	0.68	1.0
20000 MHz	INTERCEPT (mV)	1666.2											Measured Value (mV)
	SLOPE (mV/dB)	14.1											Error (mV)
		976	1032	1104	1172	1238	1316	1376	1448	1523	1598	1680	1.0
		13	-2	0	-2	-7	1	-9	-7	-3	2	14	1.0
		0.90	-0.12	0.00	-0.16	-0.47	0.08	-0.65	-0.53	-0.19	0.15	0.98	Flatness = ± 0.6
Average Slope (mV/dB)		0.9	1.5	1.6	1.3	0.9	0.9	0.4	0.7	0.7	1.1	1	





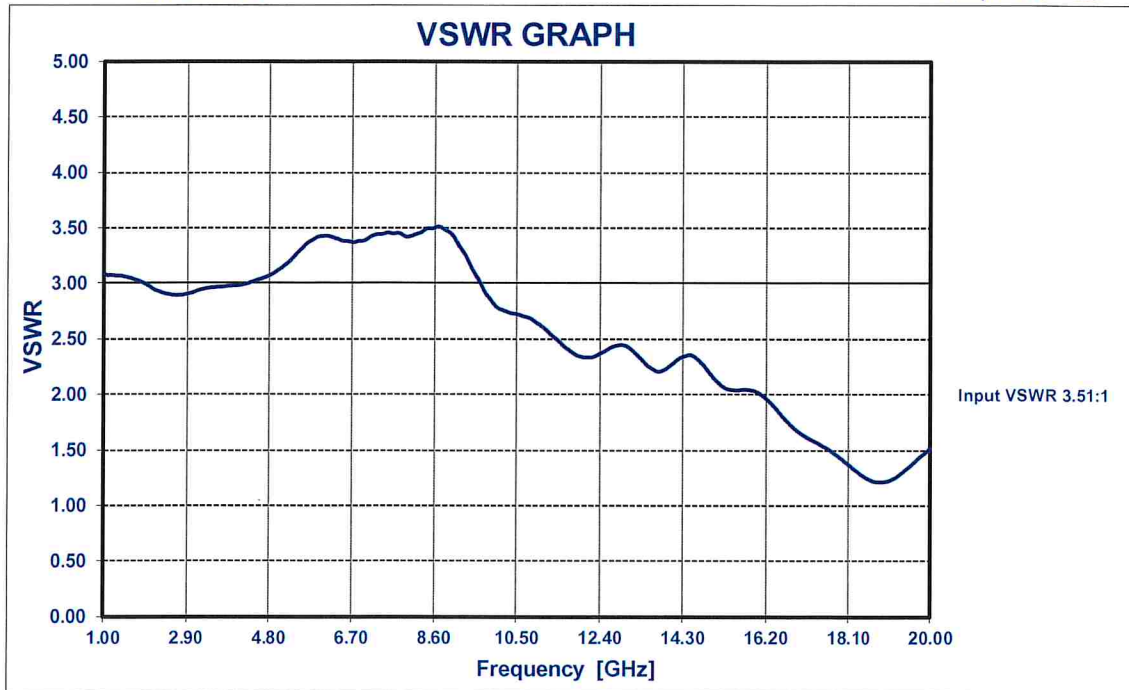
**SUMMARY TEST DATA
ON
SDLVA-1G20G-58-12-SFF**

PL40049/2313

VSWR

Model Number: SDLVA-1G20G-58-12-SFF
Serial Number: PL40049
Date: 3/29/2023

Temperature: +25C





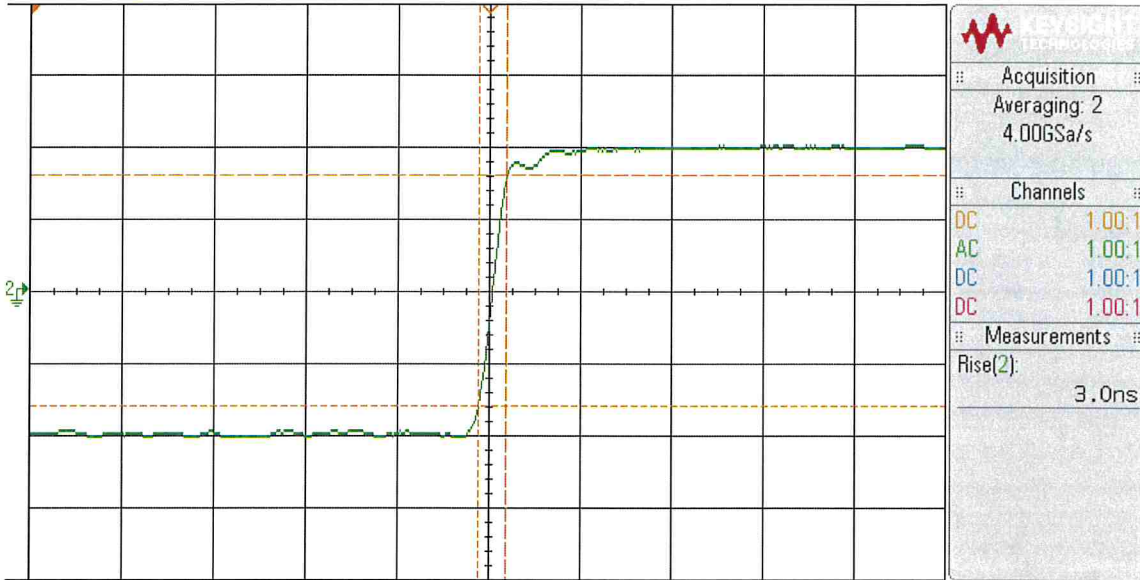
SUMMARY TEST DATA ON SDLVA-1G20G-58-12-SFF

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Rise Time

DSO-X 3024A, MY54490369: Wed Mar 29 12:00:09 2023

1 2 108% 3 4 3.000% 10.00%/ Auto f E 2.53V



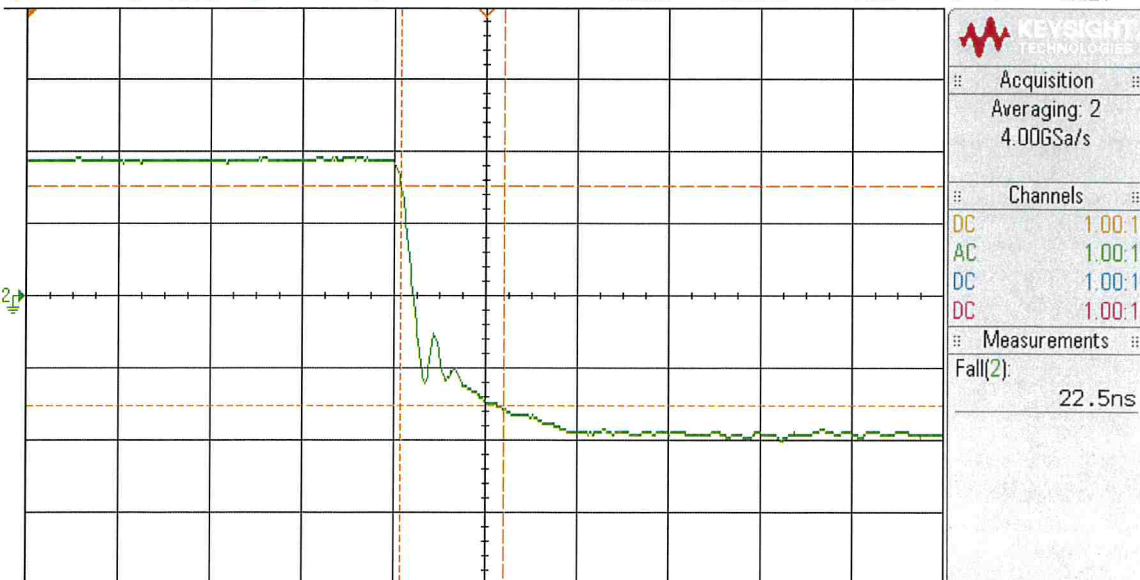
Clear Measurements Menu

Clear Meas 1 Rise(2) Clear Meas 2 <None> Clear Meas 3 <None> Clear Meas 4 <None> Clear All

Fall Time

DSO-X 3024A, MY54490369: Wed Mar 29 11:58:12 2023

1 2 116% 3 4 3.050% 20.00%/ Auto f E 2.52V



Clear Measurements Menu

Clear Meas 1 Fall(2) Clear Meas 2 <None> Clear Meas 3 <None> Clear Meas 4 <None> Clear All

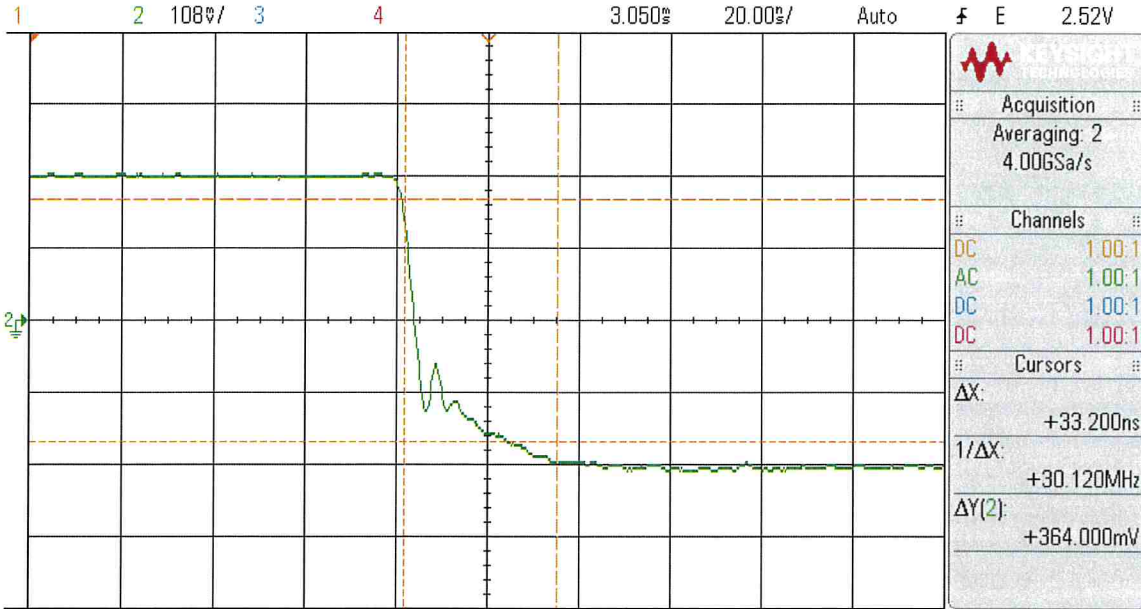


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Recovery Time

DSO-X 3024A, MY54490369: Wed Mar 29 11:49:48 2023

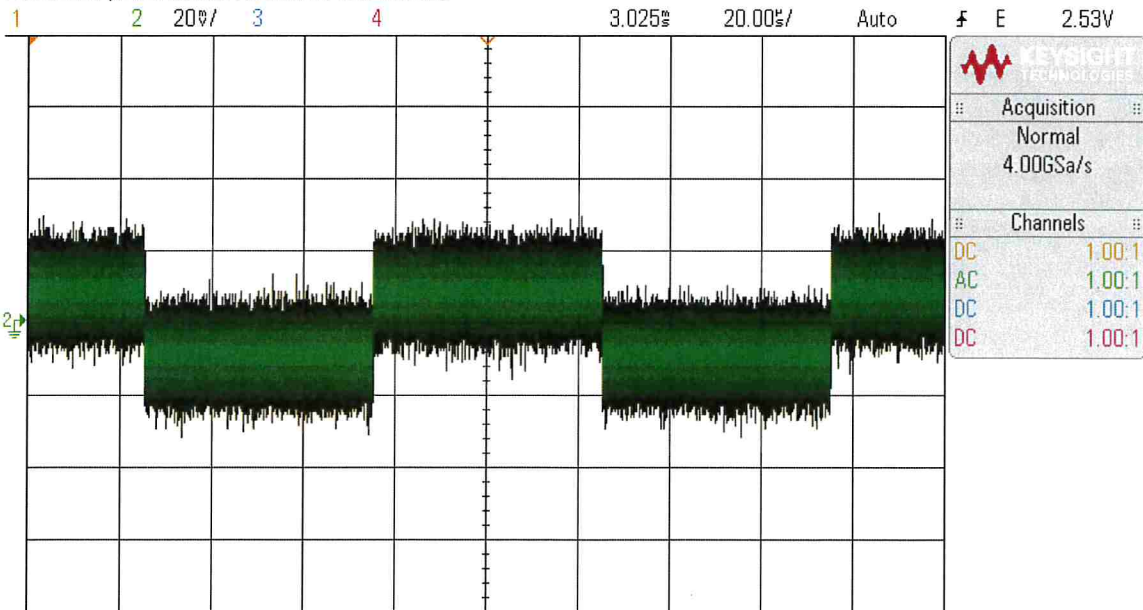


Cursors Menu

Mode Manual Source 2 Cursors X2 Units X1: 3.050023400ms Y1: -182.000mV X2: 3.050056600ms Y2: 182.00mV

TSS

DSO-X 3024A, MY54490369: Wed Mar 29 12:02:28 2023



Acquire Menu

Acq Mode Normal # Avgs 2 Segmented