



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

PL37226/2233

Customer: _____
SO No: _____
Model No: SDLVA-1G20G-58-12-SFF
Serial No: PL37226/2233

Tested By: J. Monley **Sign:** _____
Temperature: +25°C **Sign:** _____
Date: 5/01/2023
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	±1.9 dB	
3	Log Linearity	±1.0 dB Typ. (-50 to 0 dBm)	See Plot	±2.95 dB Max ±2.2 dB Avg	
4	Log Linearity Over Temp	±1.0 dB Typ. (-50 to 0 dBm @ -55°C to +85°C)	-	±2.06 dB Max	
5	Logging Range	-54 to +5 dBm	-	-50 to +5 dBm	
6	Input VSWR	3.0:1 Typ.	See Plot	3.23:1	
7	Output Voltage Range	0.9 V to 1.5 V Typ.	See Plot	0.9 V to 1.8 V	
8	Slope	14 mV / dB Typ.	See Plot	14.9 mV	
9	Rise Time	5 ns Typ. (Pin = -20 dBm @ 10% to 90%)	See Plot	4.3 ns	
10	Fall Time	20 ns Typ. (Pin = -20 dBm @ 90% to 10%)	See Plot	39.7 ns	
11	Recovery Time	28 ns Typ. (Pin = -50 dBm to 0 dBm)	See Plot	<52 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	

QA/QC Approval: *K. [Signature]*

Date: 5-2-23



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

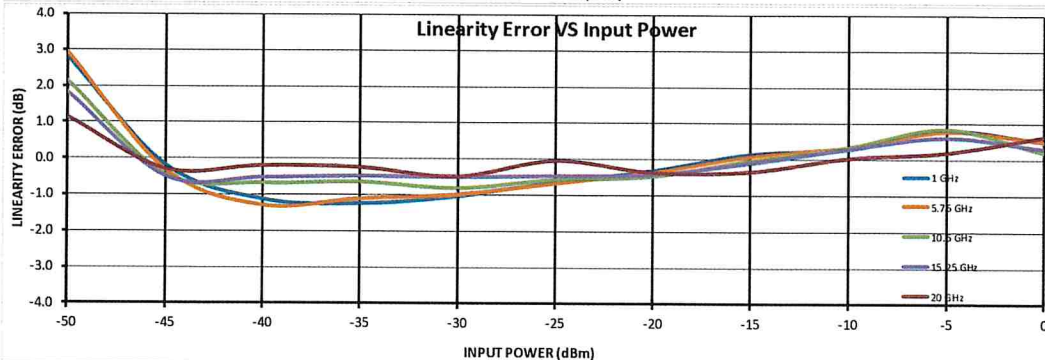
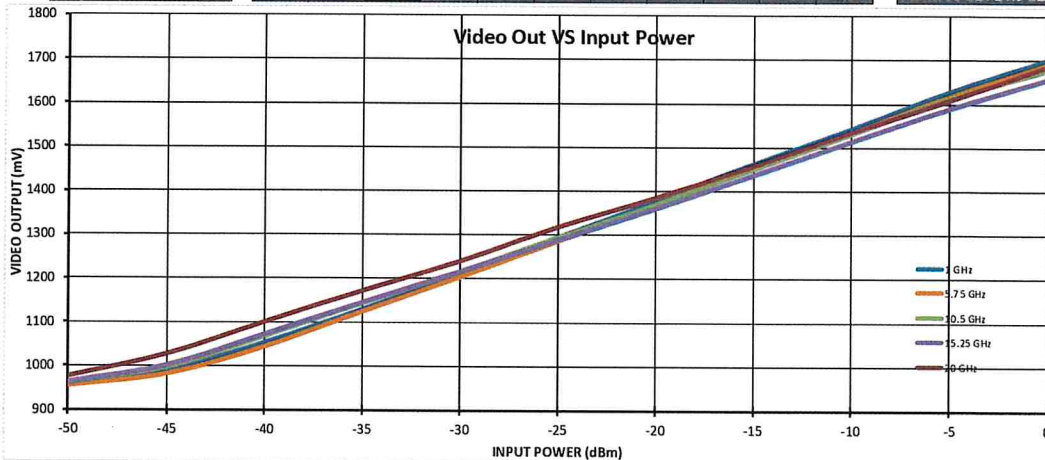
PL37226/2233

Transfer Response at 25°C

MODEL: SDLVA-1G20G-58-12-SFF
SERIAL NO: PL37226
DATE: 5/1/2023
TESTED BY: J Monley
TEST TEMP: +25°C



Frequency		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
1 GHz	INTERCEPT (mV)	1693											Measured Value (mV)
	SLOPE (mV/dB)	15.6											Error (mV)
	LIN. ERR. (dB)	2.8											LINEARITY ERROR (dB)
		959	990	1053	1129	1210	1294	1377	1462	1542	1628	1701	
		44	-3	-12	-19	-18	-10	-5	2	4	13	8	
		2.83	-0.18	-1.13	-1.25	-1.04	-0.65	-0.32	0.14	0.28	0.81	0.50	
5.75 GHz	INTERCEPT (mV)	1682											Measured Value (mV)
	SLOPE (mV/dB)	15.4											Error (mV)
	LIN. ERR. (dB)	2.95											LINEARITY ERROR (dB)
		956	983	1045	1125	1204	1286	1368	1452	1533	1617	1690	
		46	-5	-20	-17	-15	-10	-5	1	5	12	8	
		2.95	-0.30	-1.28	-1.10	-0.98	-0.67	-0.35	0.09	0.34	0.78	0.51	
10.5 GHz	INTERCEPT (mV)	1675											Measured Value (mV)
	SLOPE (mV/dB)	14.9											Error (mV)
	LIN. ERR. (dB)	2.15											LINEARITY ERROR (dB)
		962	998	1069	1144	1216	1294	1370	1451	1531	1613	1678	
		32	-6	-10	-9	-12	-8	-7	0	5	13	3	
		2.15	-0.43	-0.66	-0.63	-0.80	-0.56	-0.46	-0.02	0.35	0.85	0.21	
15.25 GHz	INTERCEPT (mV)	1652											Measured Value (mV)
	SLOPE (mV/dB)	14.3											Error (mV)
	LIN. ERR. (dB)	1.84											LINEARITY ERROR (dB)
		964	1002	1073	1145	1216	1288	1360	1436	1513	1589	1656	
		28	-7	-8	-7	-7	-8	-2	4	9	4		
		1.84	-0.50	-0.53	-0.49	-0.51	-0.47	-0.43	-0.11	0.29	0.61	0.30	
20 GHz	INTERCEPT (mV)	1677											Measured Value (mV)
	SLOPE (mV/dB)	14.7											Error (mV)
	LIN. ERR. (dB)	1.15											LINEARITY ERROR (dB)
		977	1028	1101	1172	1240	1318	1385	1457	1534	1608	1686	
		18	-4	-3	-3	-7	-1	-5	0	3	9		
		1.15	-0.29	-0.20	-0.24	-0.50	-0.05	-0.37	-0.35	0.03	0.19	0.64	
Avg. Slope: 14.9 mV/dB		0.7	1.5	1.9	1.6	1.2	1.1	0.8	0.9	1	1.3	1.5	Flatness dB: ±1.9 dB

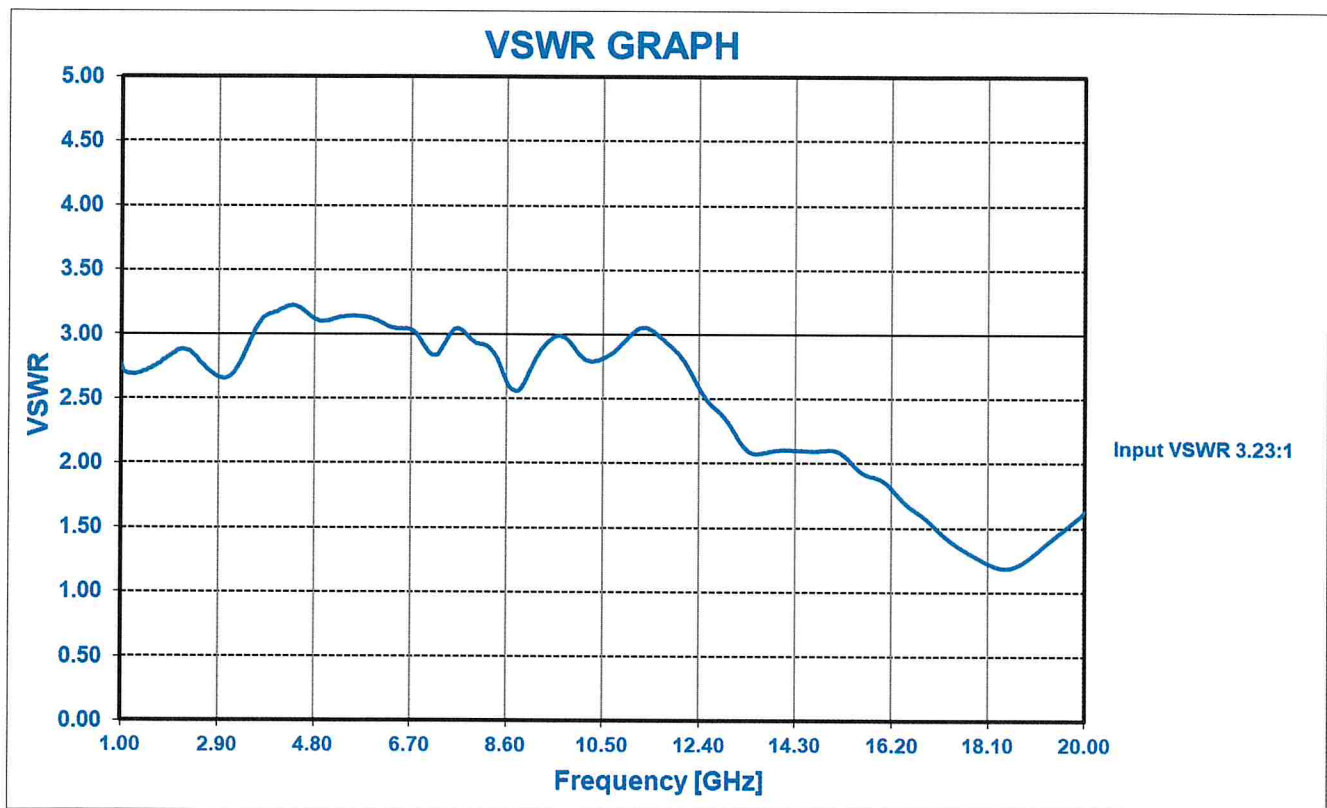




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VSWR

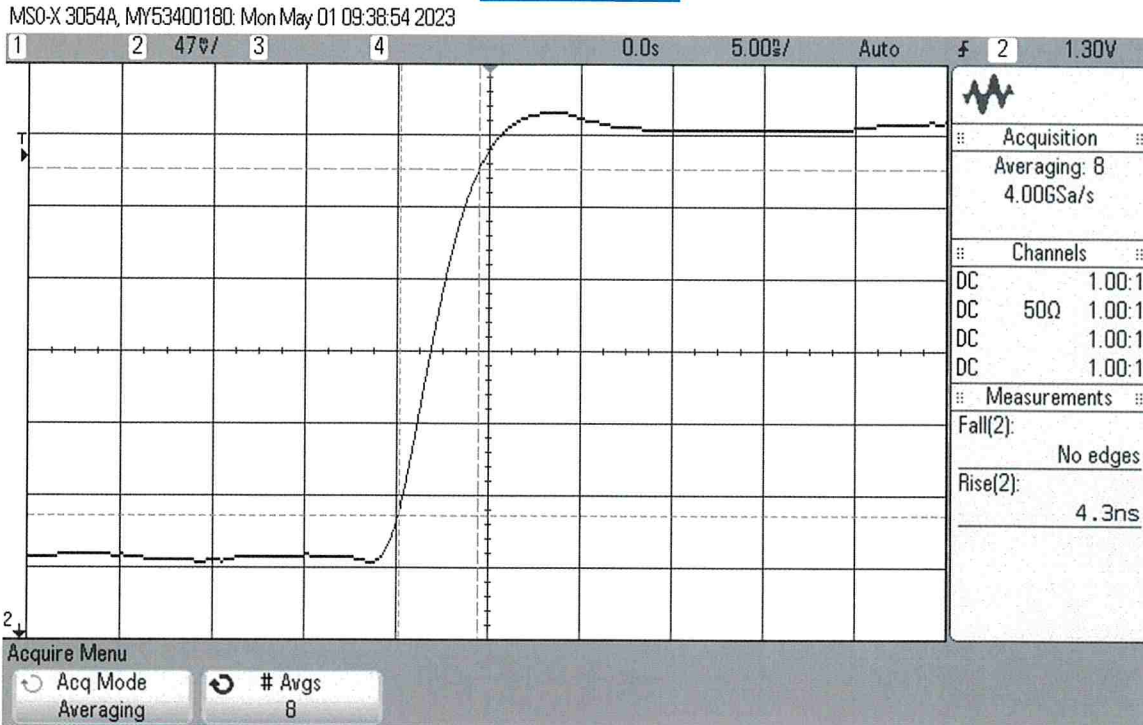




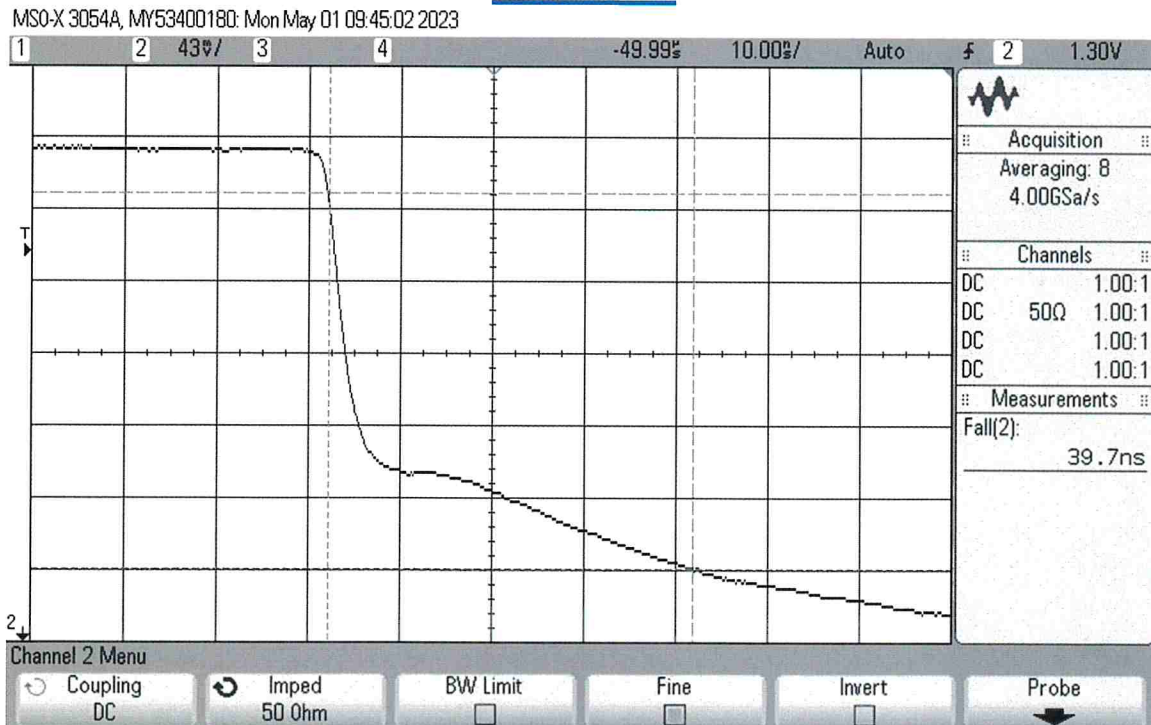
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Rise Time



Fall Time



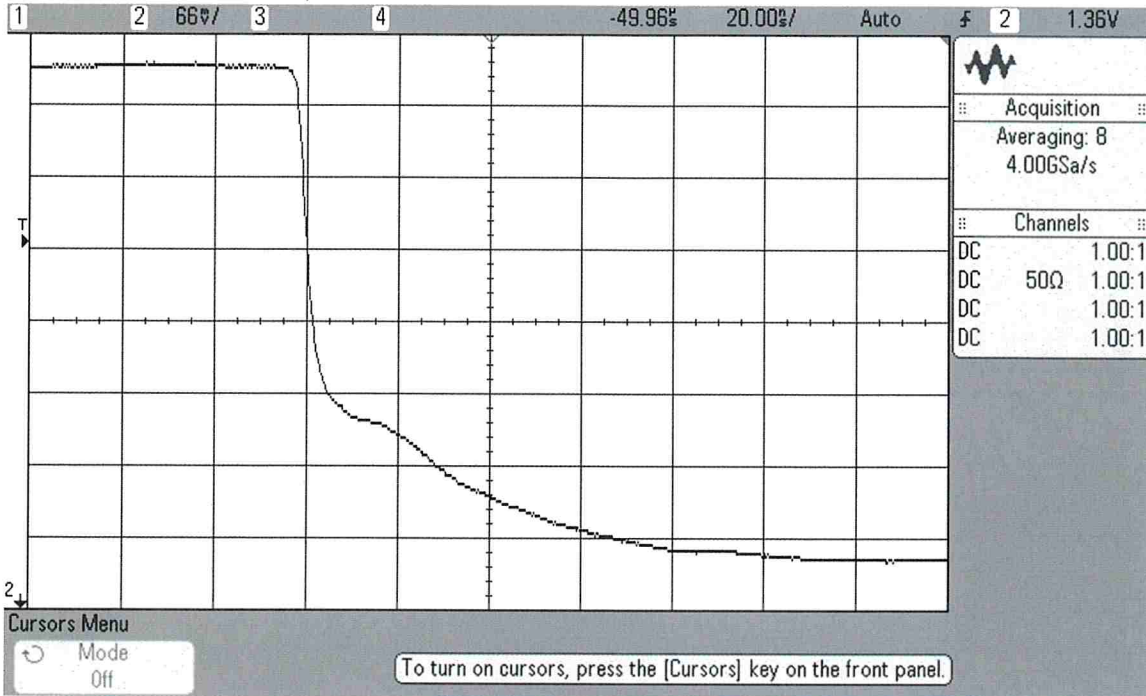


**SUMMARY TEST DATA
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Recovery Time

MSO-X 3054A, MY53400180: Mon May 01 10:13:14 2023



TSS

MSO-X 3054A, MY53400180: Mon May 01 10:23:02 2023

