

SUMMARY TEST DATA ON SDLVA-1G20G-55-12-SFF

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-1G20G-55-12-SFF
SERIAL NO: PL53239/2525

TESTED BY: Joshua Monley
TEMPERATURE: +25°C (Unless Otherwise Specified)
DATE: 6/12/2025
DRAWING NO: 27637600 REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass
2	Frequency Flatness	±2.0 dB Typ	± 1.90 dB See Plot	Pass
3	Log Linearity	±1.5 dB Typ (-50 to 0dBm)	± 1.86 dB See Plot	Pass
4	Log Linearity Over Temp	±2.0 dB Typ (-50 to 0dBm) (@ -55°C to +85°C)	By Design	Pass
5	Logging Range	-55 to +5 dBm	PASS	Pass
6	Video Load	50 OHMS	50 OHMS	Pass
7	Input VSWR	2.8:1 Typ	4.337:1	Pass
8	Log Video Output Voltage	0.1 V to 2.5V Typ	See Plot	Pass
9	Log Video Output Slope	50 mV / dB Typ	49.36 mV/dB	Pass
10	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	6.6 nS	Pass
11	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	8.2 nS	Pass
12	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	29 nS	Pass
13	Log Video Propagation Delay	15 ns Typ	By Design	Pass
14	TSS	-58dBm Typ	-60.2 dBm	Pass
15	Power Supply	+8V to +15V @ 130mA Typ	110mA	Pass

QA/QC Approval:  **PMI QA3**

Date: 6-17-25



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LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-1G20G-55-12-SFF
 TESTED BY: Joshua Monley
 DATE: 6/12/2025
 SERIAL NO: PL53239
 Test Temp: +25C

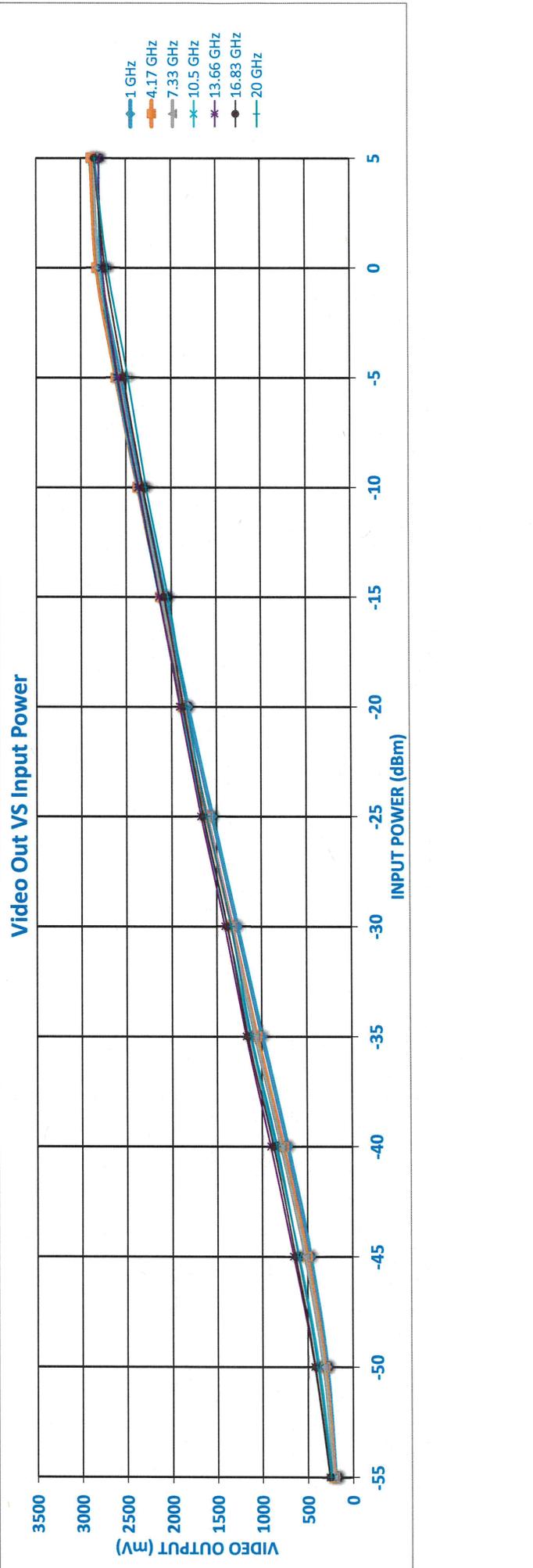
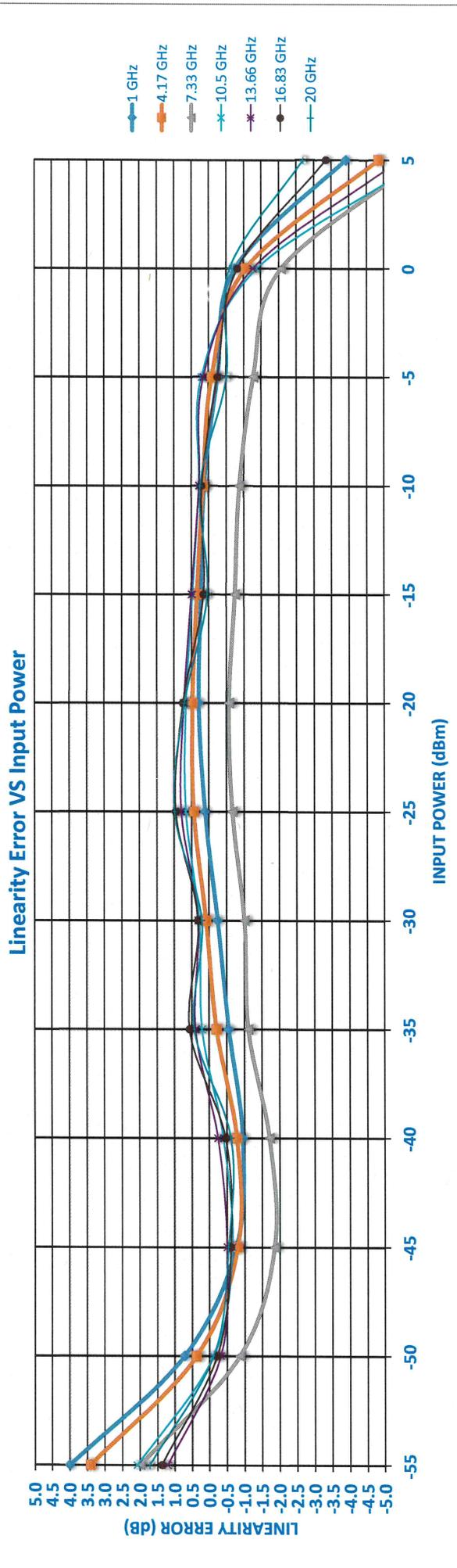
Output Offset(V)= 0.149

Frequency

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	2838	51.7	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)																	
1 GHz	2838	51.7	199	288	288	470	719	998	1273	1550	1818	2073	2327	2566	2799	2894	-0.94	0.73																	
4.17 GHz	2880	51.8	208	310	508	768	1057	1331	1608	1869	2121	2371	2617	2826	2888	-1.77	20	-40	-10	23	25	18	9	-4	-54	-252									
7.33 GHz	2911	50.9	3.41	0.38	-0.80	-0.78	-0.20	0.09	0.44	0.47	0.34	0.16	0.16	-0.09	-1.05	-4.86	3.41	0.38	-0.80	-0.78	-0.20	0.09	0.44	0.47	0.34	0.16	0.16	-0.09	-1.05	-4.86					
10.5 GHz	2855	49.5	213	322	526	788	1073	1333	1605	1864	2110	2358	2592	2806	2857	-1.86	322	526	788	1073	1333	1605	1864	2110	2358	2592	2806	2857	-1.86	-0.57					
13.66 GHz	2827	47.7	236	375	596	856	1133	1384	1651	1898	2136	2374	2618	2787	2799	-0.64	375	596	856	1133	1384	1651	1898	2136	2374	2618	2787	2799	-0.64	0.67					
16.83 GHz	2773	47.0	259	425	655	906	1175	1410	1672	1907	2135	2363	2596	2767	2806	-0.50	425	655	906	1175	1410	1672	1907	2135	2363	2596	2767	2806	-0.50	0.80					
20 GHz	2739	46.9	255	415	631	873	1156	1379	1644	1869	2076	2313	2527	2735	2851	-0.61	415	631	873	1156	1379	1644	1869	2076	2313	2527	2735	2851	-0.61	0.95					
Flatness +/-dB			0.6	1.4	1.9	1.9	1.8	1.4	1.2	0.9	1.0	0.9	1.0	1.4	1.2	1.0	1.0	+/-	1.90	FLATNESS ERROR (dB)															
Slope Avg (mv/dB)																																			

Slope Avg (mv/dB) 49.4

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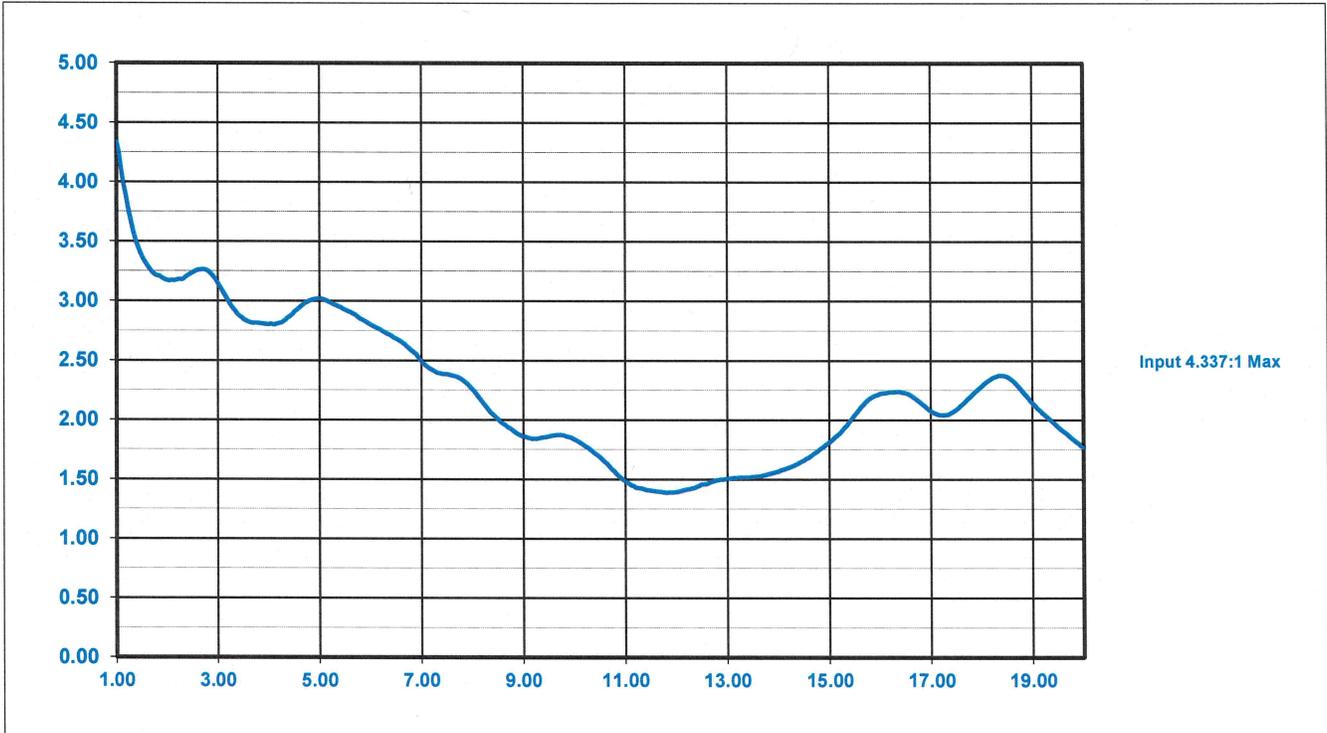




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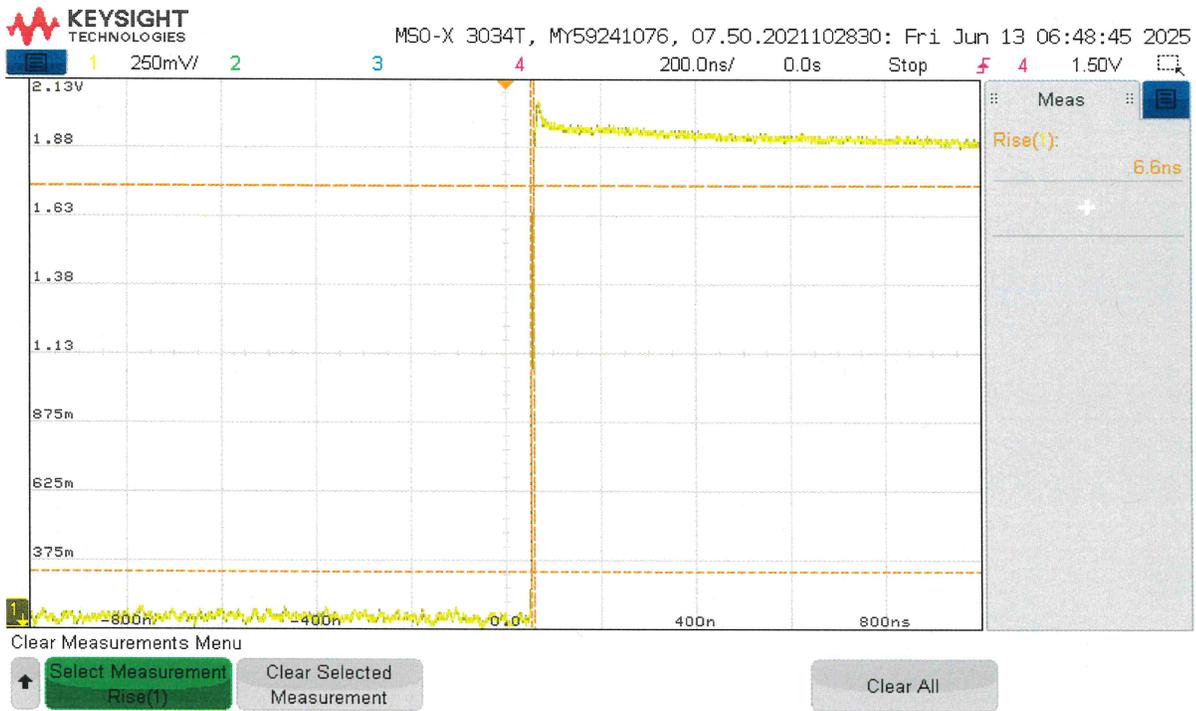
Temperature: +25C





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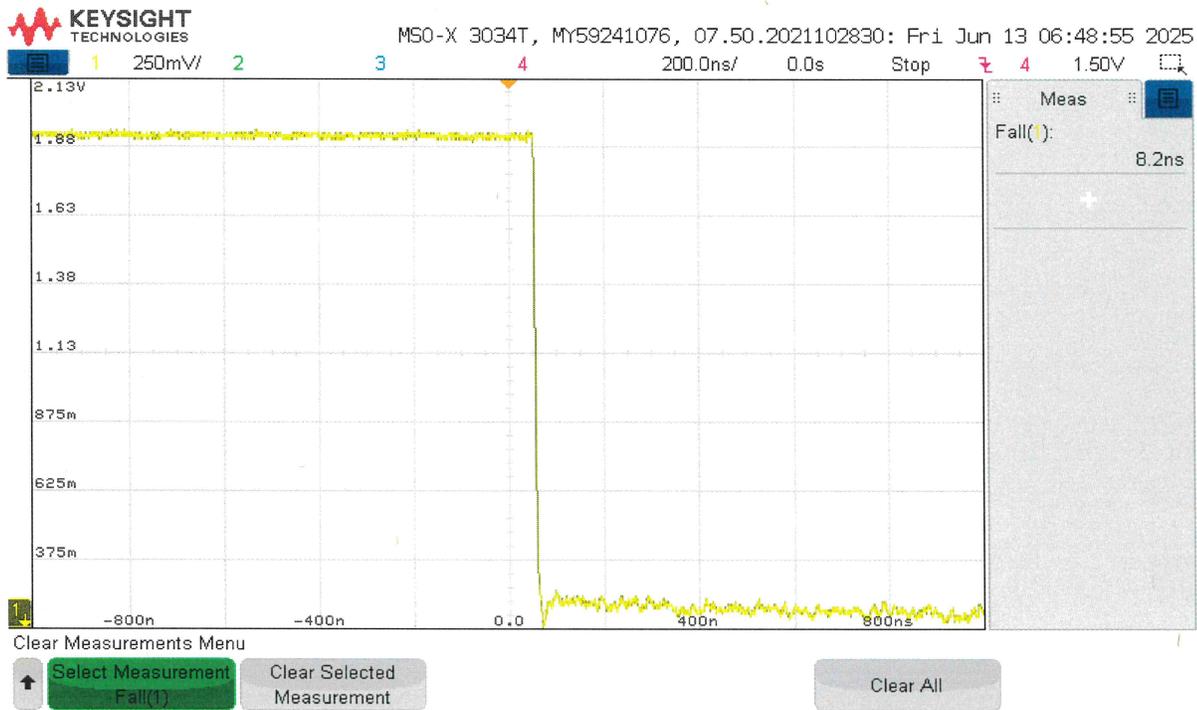
Rise Time = 6.6 ns





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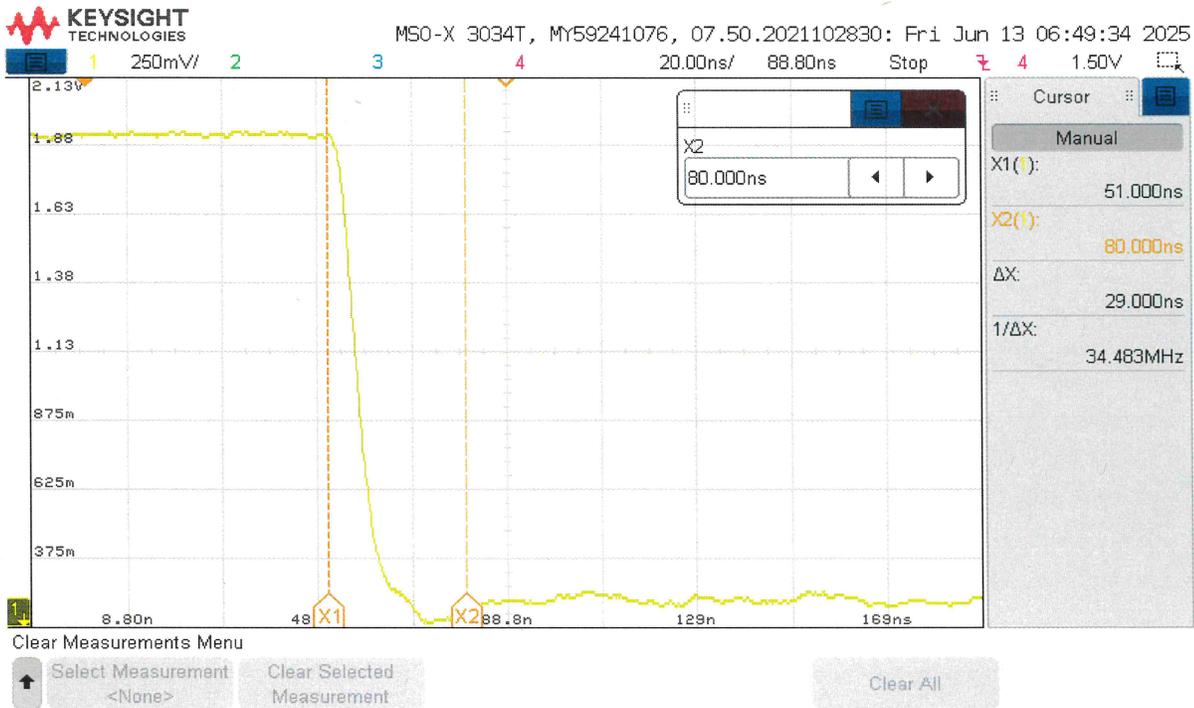
Fall Time = 8.2 ns





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Recovery Time = 29 ns





**SUMMARY TEST DATA
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TSS = -60.2 dBm

