

SUMMARY TEST DATA ON SDLVA-50M18G-70

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-50M18G-70
SERIAL NO: PL57066/2552

TESTED BY: Daniel W
TEMPERATURE: +25°C
DATE: 12/22/2025
DRAWING NO: 27629813 REV: B1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	0.05 GHz to 18.0 GHz	0.05 GHz to 18.0 GHz See Plot	PMI QA
2	Frequency Flatness	±2.0 dB Max	±1.6 dB	
3	TSS	-70 dBm Typ	-70 dBm	
4	VSWR	2.0:1 Max	1.97:1	
5	Video Comparator Output	5 V into 1 MΩ, 2.5 V into 50 Ω Typ	2.3V into 50Ω	
6	Video Comparator Threshold Level	-60 dBm to 0 dBm (Operating Range) Threshold = V1±5% & ±25 mV (Hysteresis)	Pass	
7	Log Range	-70 dBm to 0 dBm	-70 dBm to 0 dBm	
8	Log Slope	25 mV/dB ±5% @ 50 Ω Load	25.31 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	±1.37 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	36.2 ns	
12	Recovery Time	600 ns Max	530 ns	
13	Fall Time	400 ns MAX	191.6 ns	
14	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	< 400 mA < 200 mA	

QA/QC Approval: *K. Klammer*

Date: 12-23-25

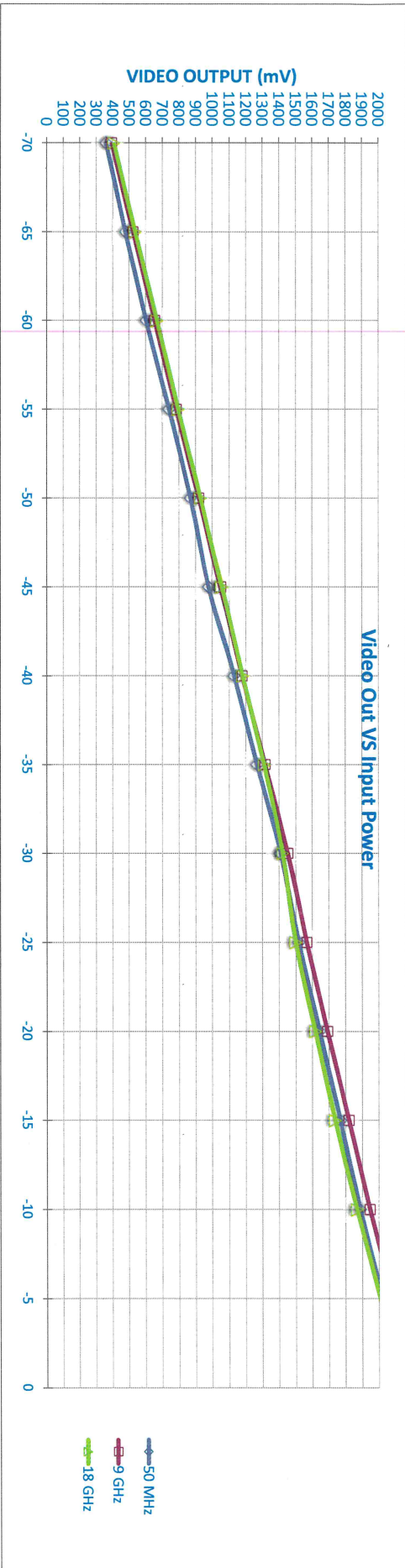
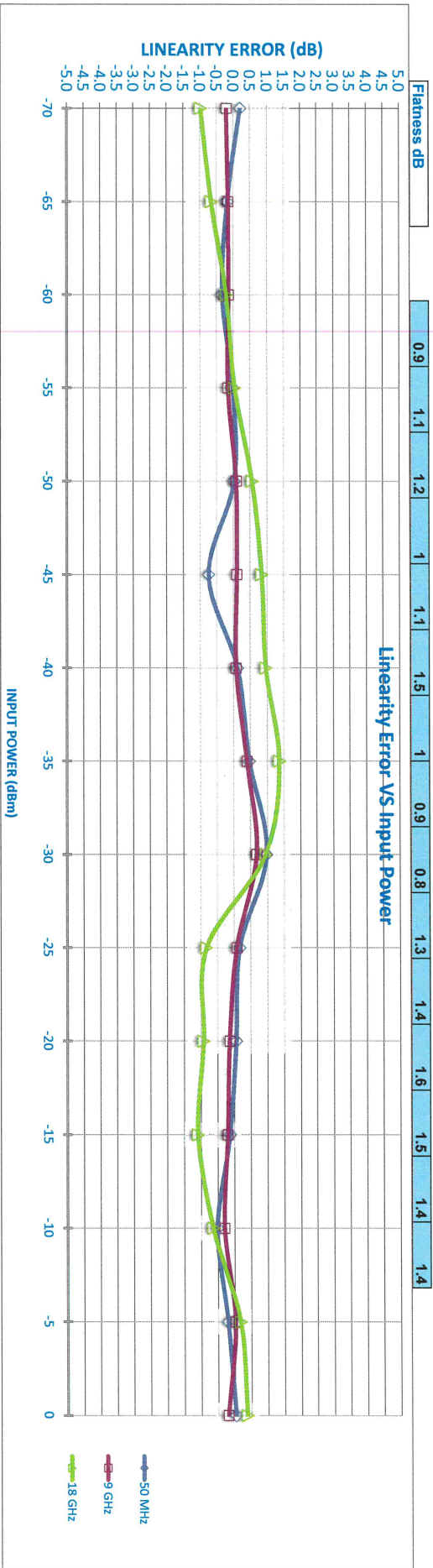


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LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: Daniel W
 TEST DATE: 12/18/25
 SERIAL NO.: PL57066/2552
 TEST TEMP: +25C

Frequency

Frequency	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0							
50 MHz	380	479	604	741	871	980	1131	1269	1411	1519	1645	1769	1888	2025	2160							
	5	-4	-8	0	1	-19	3	12	25	4	2	-3	-13	-5	1							
	0.21	-0.17	-0.32	-0.01	0.03	-0.74	0.12	0.47	0.98	0.17	0.06	-0.13	-0.51	-0.20	0.04							
9 GHz	384	525	655	784	920	1050	1179	1317	1454	1568	1692	1820	1947	2085	2209							
	-5	-4	-3	-4	2	3	2	10	18	2	-3	-5	-8	1	-5							
	-0.20	-0.15	-0.13	-0.16	0.09	0.10	0.08	0.40	0.69	0.08	-0.13	-0.20	-0.30	0.02	-0.19							
18 GHz	407	536	668	795	929	1057	1181	1312	1423	1501	1620	1737	1859	2010	2136							
	-24	-16	-5	1	14	21	23	33	23	-20	-22	-26	-16	4	9							
	-0.98	-0.65	-0.20	0.04	0.57	0.85	0.97	1.37	0.95	-0.83	-0.92	-1.09	-0.64	0.18	0.38							
	Measured Value (mV)																					
	Error (mV)																					
	LINEARITY ERROR (dB)																					
	Intercept (mV)	2159	25.78	2214	25.93	2127	24.23	407	536	668	795	929	1057	1181	1312	1423	1501	1620	1737	1859	2010	2136
	SLOPE (mV/dB)	5	0.21	384	-5	407	-24	536	-16	668	1	14	21	23	33	23	-20	-22	-26	-16	4	9
	FLATNESS (dB)	0.9	1.1	1.2	1	1.1	1.5	1	0.9	0.8	1.3	1.4	1.6	1.5	1.4	1.4						



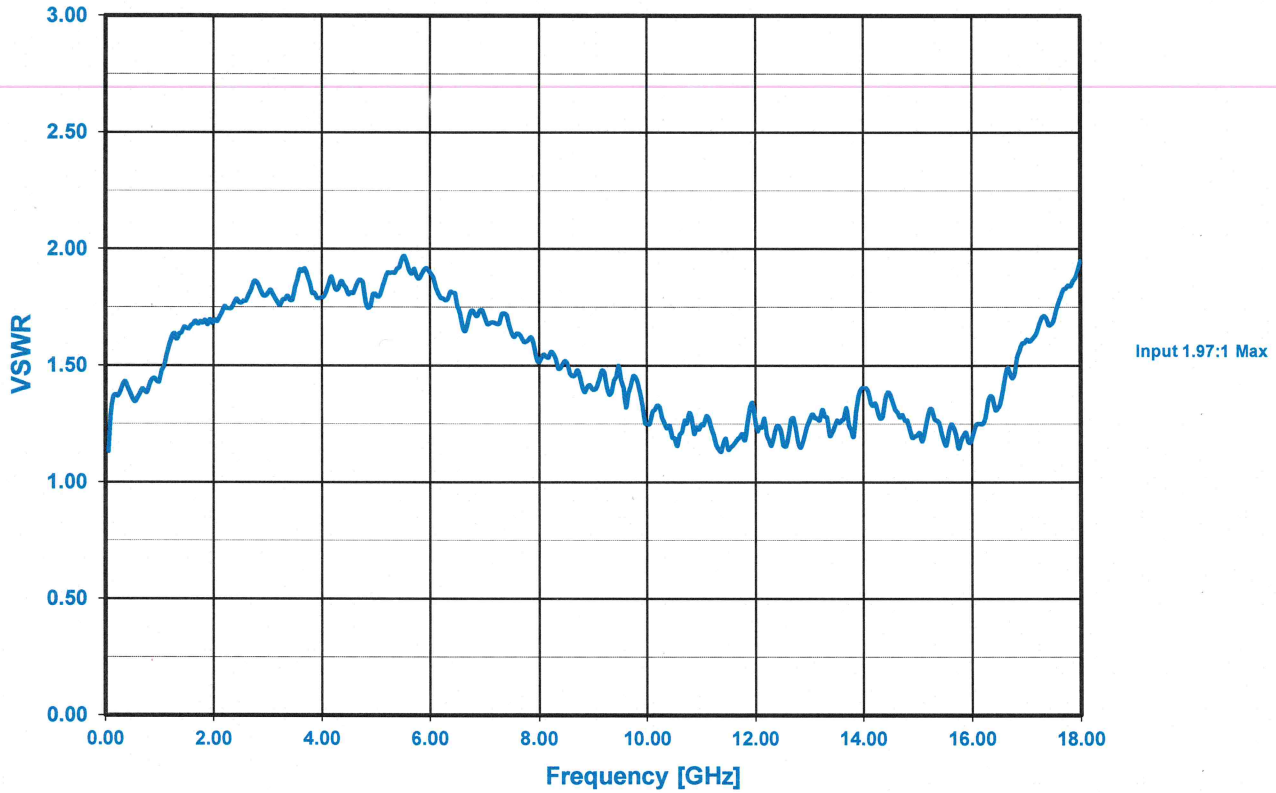


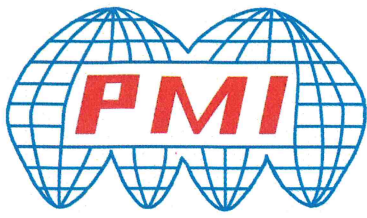
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SDLVA-50M18G-70**

Model Number: SDLVA-50M18G-70
Serial Number: PL57066/2552

Temperature: +25C

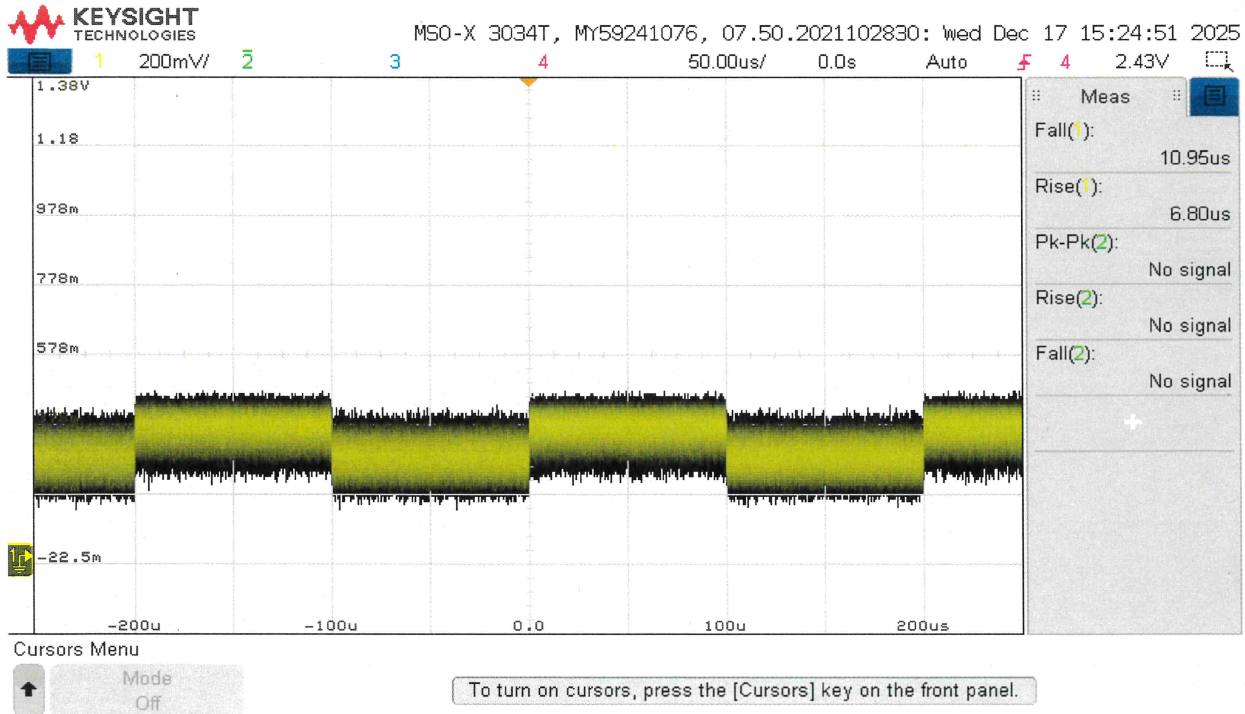
VSWR GRAPH

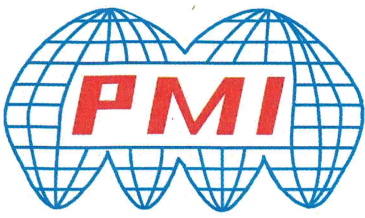




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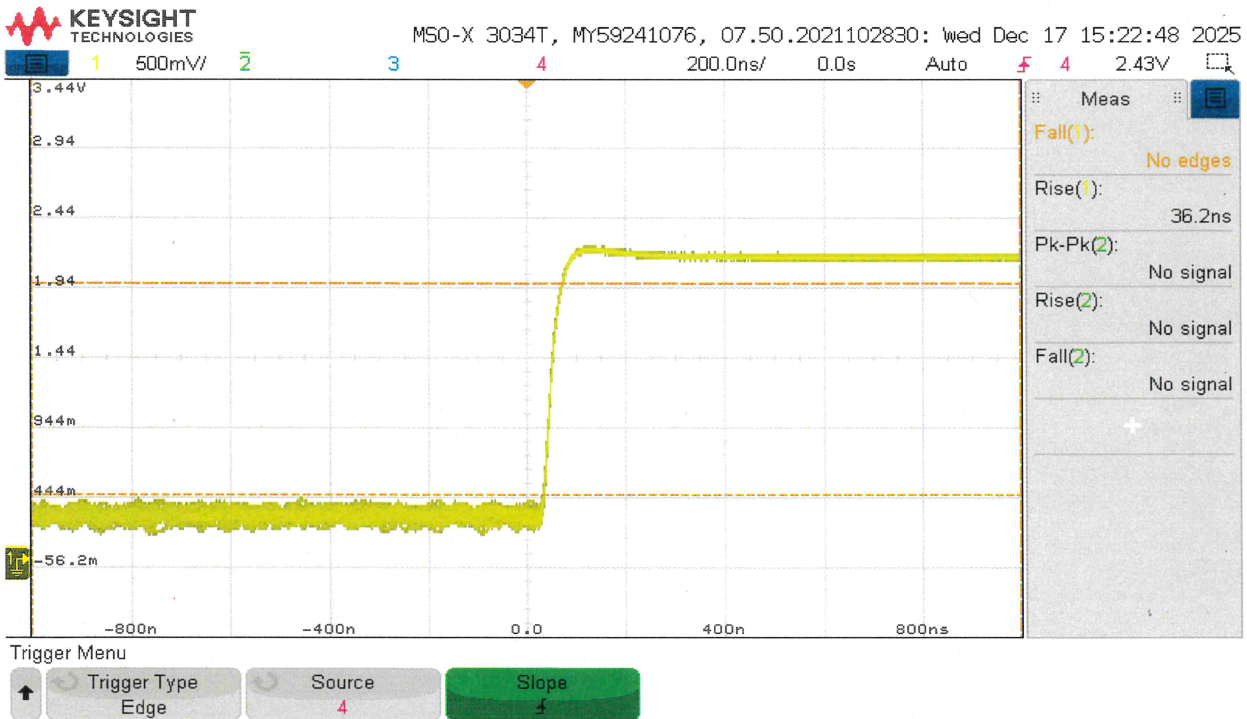
TSS = -70 dBm

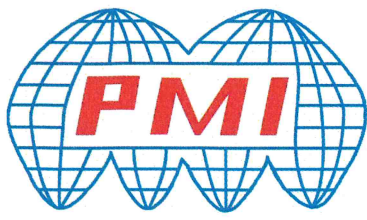




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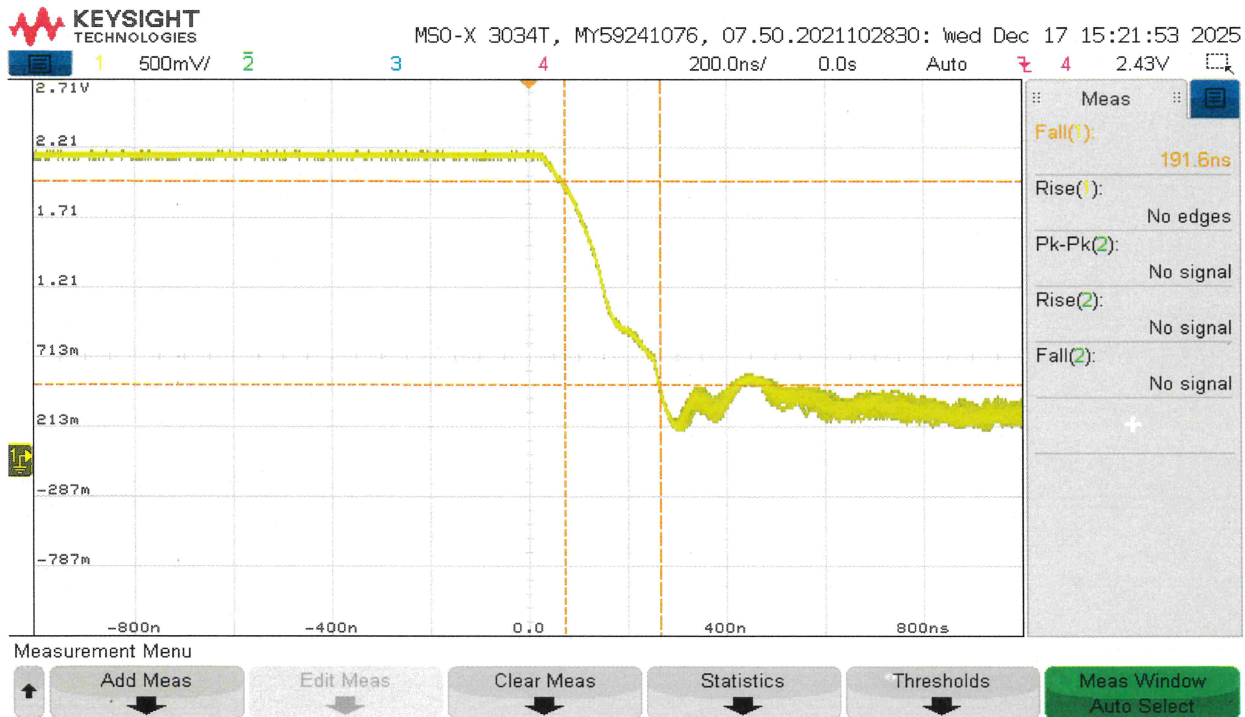
Rise Time = 36.2 ns





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Fall Time = 191.6 ns





SUMMARY TEST DATA ON SDLVA-50M18G-70

Recovery Time = 530 ns

