

SUMMARY TEST DATA ON SDLVA-50M18G-70

CUSTOMER: _____
 SO: _____
 MODEL NO: _____
 SERIAL NO: PL57067/2552

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	<i>PMI</i> QA
2	Frequency Flatness	±2.0 dB Max	±1.8 dB	
3	TSS	-70 dBm Typ	-70 dBm	
4	VSWR	2.0:1 Max	1.88:1	
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 = $V1 \pm 5\%$ & ± 25 mV (Hysteresis)	Pass	
7	Log Range	-70 dBm to 0 dBm	-70 dBm to 0 dBm	
8	Log Slope	25 mV/dB $\pm 5\%$ @ 50 Ω Load	25.01 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	±1.32 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	20.8 ns	
12	Recovery Time	600 ns Max	530 ns	
13	Fall Time	400 ns MAX	290.4 ns	
14	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	< 400 mA < 200 mA	

QA/QC Approval: *K. Klamm*

Date: 12.25.25



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LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: Daniel W
 TEST DATE: 12/19/2025
 SERIAL NO: PL57067/2552
 TEST TEMP: +25C

Frequency

RF Input Power (dBm)	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
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50 MHz	INTERCEPT (mV)	2205
	SLOPE (mV/dB)	25.74

9 GHz	INTERCEPT (mV)	2244
	SLOPE (mV/dB)	25.05

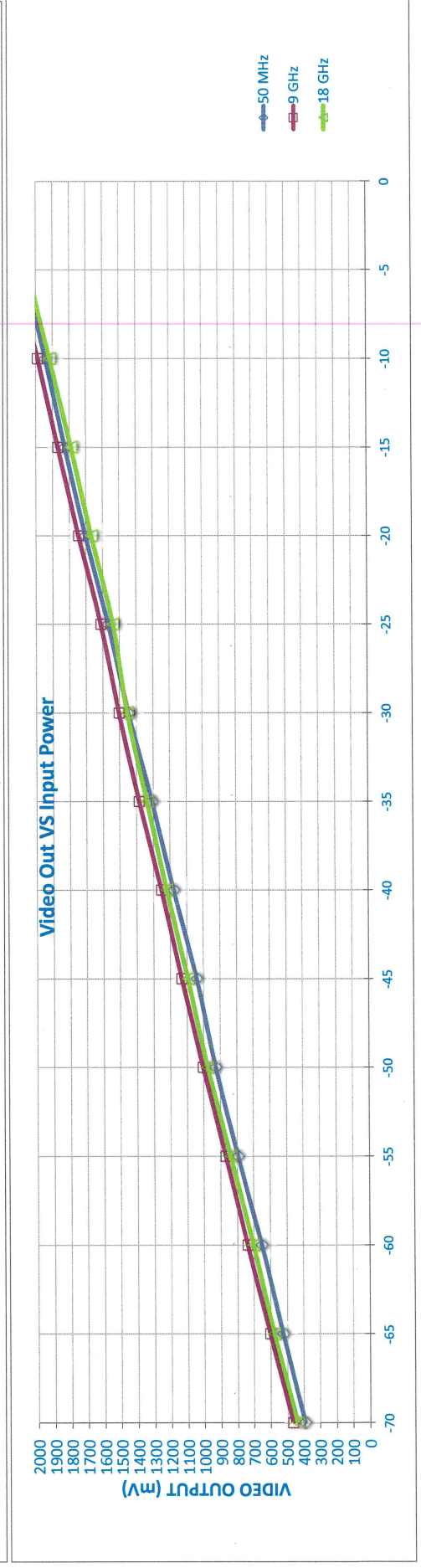
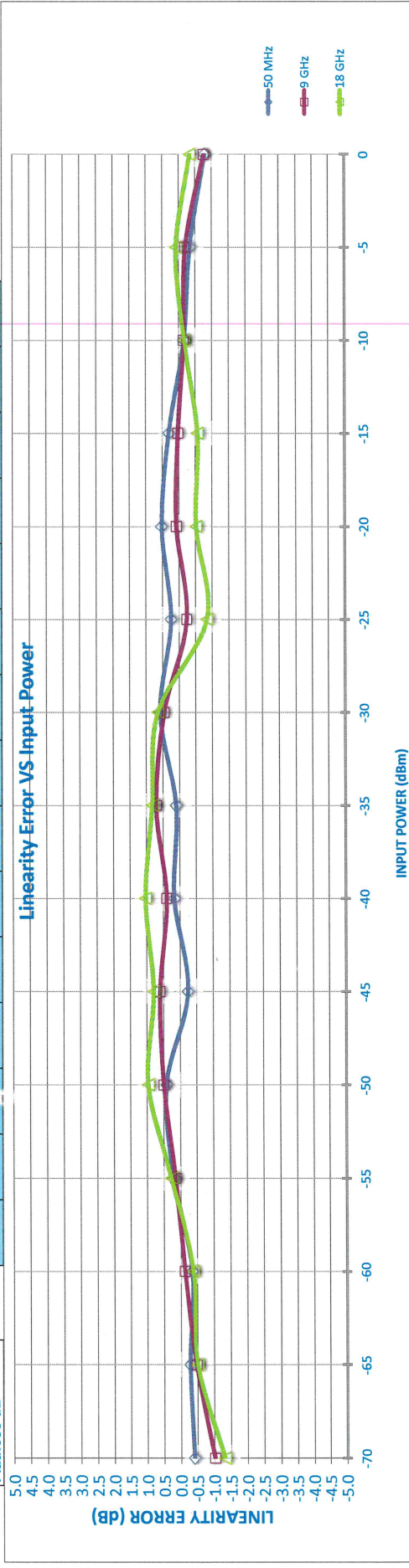
18 GHz	INTERCEPT (mV)	2166
	SLOPE (mV/dB)	24.23

393	525	652	795	929	1041	1180	1307	1448	1568	1704	1827	1944	2068	2185
-10	-7	-9	5	11	-6	4	3	15	6	13	8	-4	-9	-20
-0.41	-0.28	-0.35	0.21	0.42	-0.23	0.17	0.10	0.58	0.24	0.52	0.30	-0.15	-0.33	-0.79

465	604	738	870	1004	1132	1252	1385	1504	1612	1745	1869	1990	2114	2225
-25	-12	-3	4	12	15	10	18	11	-6	2	1	-4	-5	-19
-1.02	-0.47	-0.12	0.15	0.50	0.61	0.40	0.71	0.46	-0.23	0.08	0.03	-0.14	-0.19	-0.76

438	579	703	840	978	1095	1222	1338	1455	1540	1669	1789	1920	2047	2158
-32	-12	-9	7	23	19	25	16	-20	-13	-14	-4	-4	2	-8
-1.32	-0.50	-0.38	0.27	0.97	0.79	1.04	0.82	0.65	-0.84	-0.52	-0.57	-0.16	0.08	-0.34

Flatness dB	1.4	1.6	1.7	1.5	1.5	1.8	1.4	1.6	1.1	1.4	1.5	1.6	1.4	1.3	1.3
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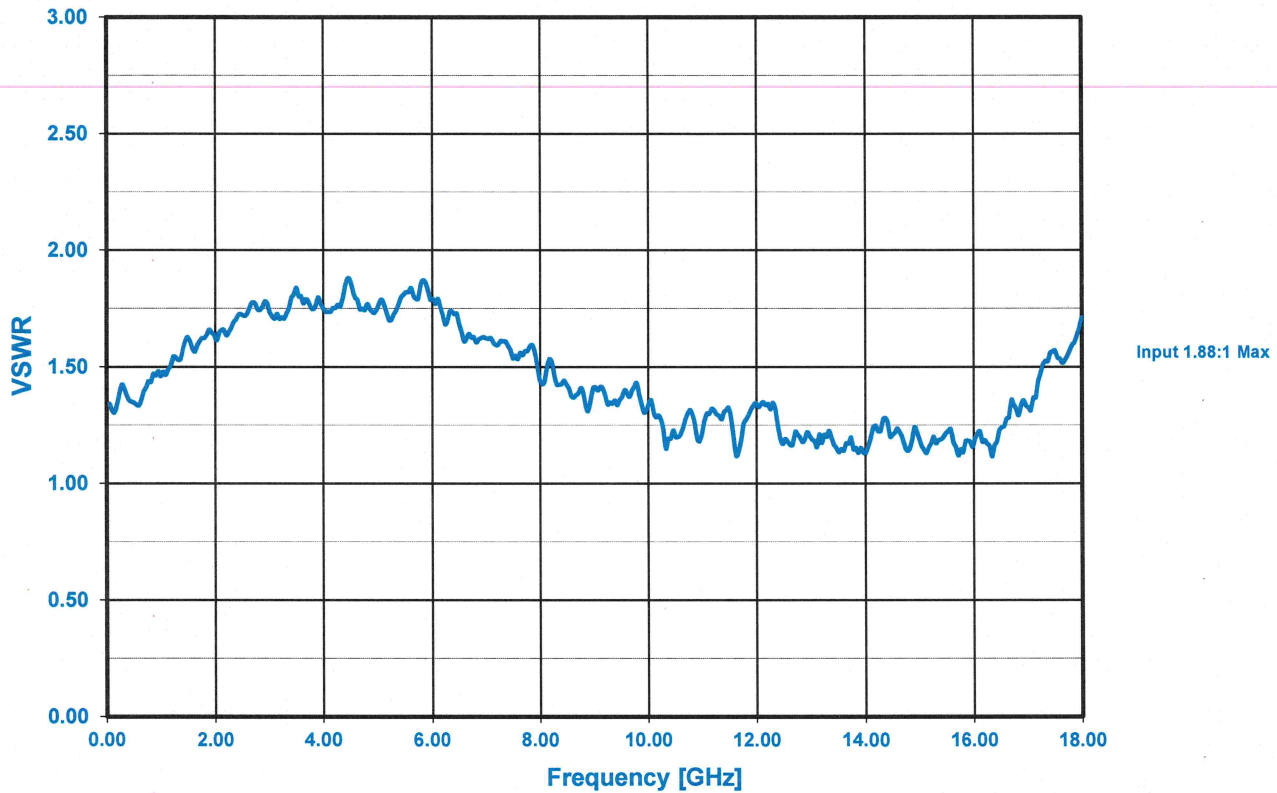


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ON
SDLVA-50M18G-70**

Model Number: SDLVA-50M18G-70
Serial Number: PL57067/2552

Temperature: +25C

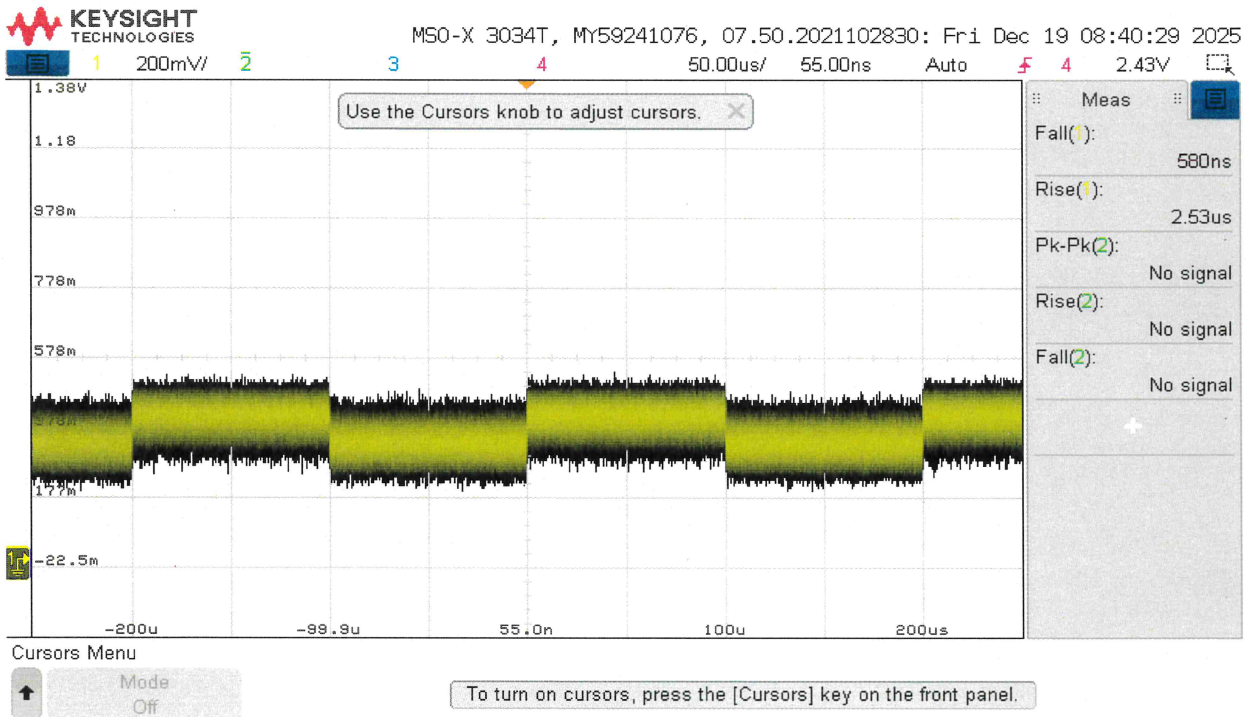
VSWR GRAPH

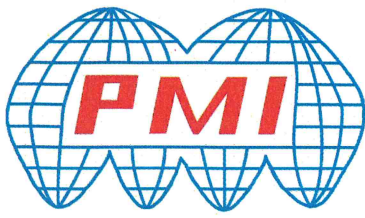




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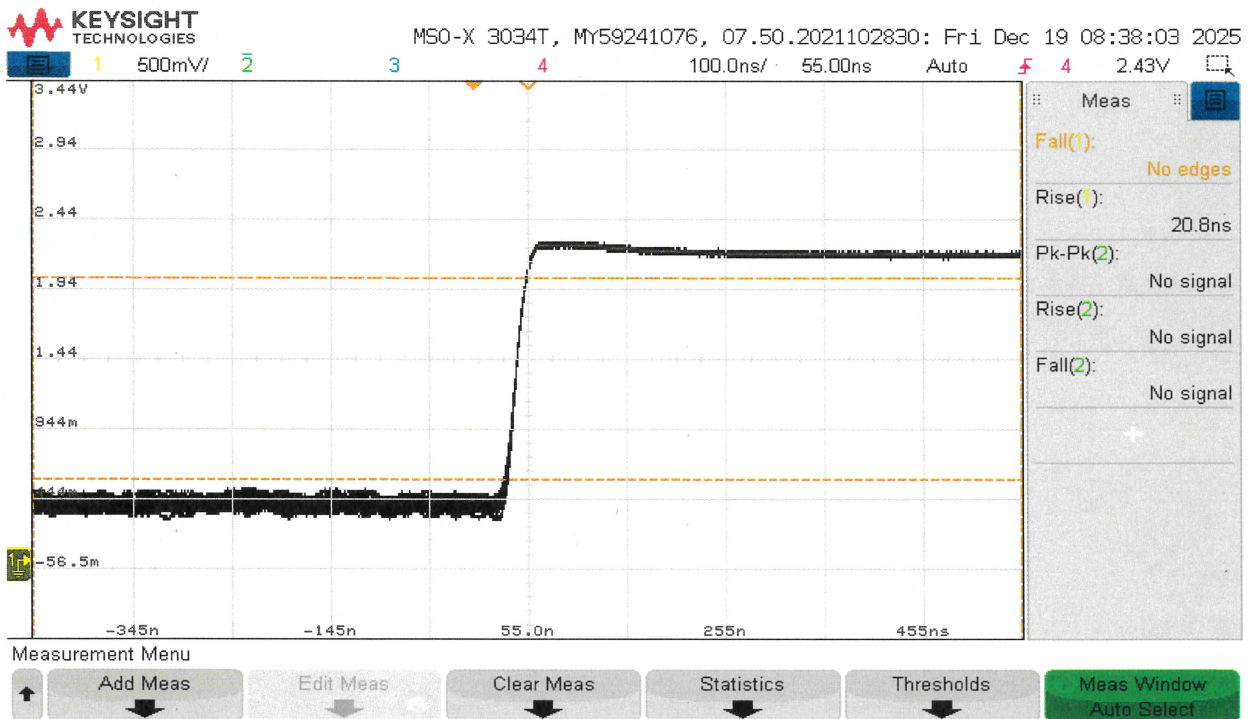
TSS = -70 dBm

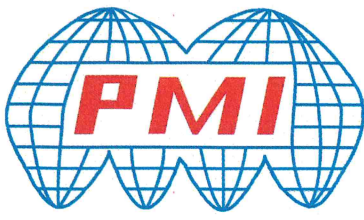




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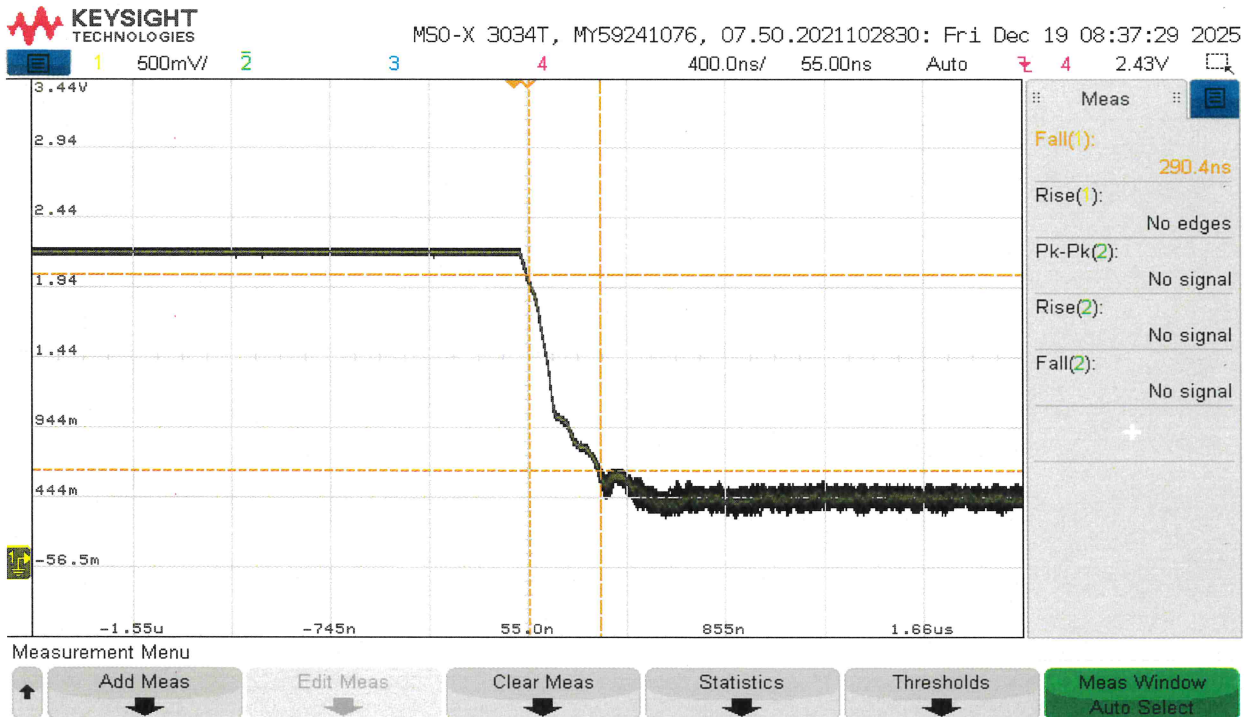
Rise Time = 20.8 ns

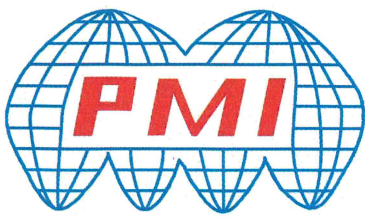




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Fall Time = 290.4 ns





SUMMARY TEST DATA ON SDLVA-50M18G-70

Recovery Time = 530 ns

