

SUMMARY TEST DATA ON SDLVA-50M18G-70

CUSTOMER: _____
 SO: _____
 MODEL NO: SDLVA-50M18G-70
 SERIAL NO: PL57755/2605

TESTED BY: Daniel W.
 TEMPERATURE: +25°C
 DATE: 1/29/2026
 DRAWING NO: 27629813 REV: B1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC PMI QA3
1	Frequency Range	0.05 GHz to 18.0 GHz	0.05 GHz to 18.0 GHz See Plot	
2	Frequency Flatness	±2.0 dB Max	±1.6 dB	
3	TSS	-70 dBm Typ	-70 dBm	
4	VSWR	2.0:1 Max	1.98:1	
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	24.88 mV/dB Avg.	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	±1.11 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	25.96 ns	
12	Recovery Time	600 ns Max	531 ns	
13	Fall Time	400 ns MAX	169.5 ns	
14	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	< 400 mA < 200 mA	

QA/QC Approval: 

Date: 1-30-26



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LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: Daniel W.
 TEST DATE: 1-29-26
 SERIAL NO: PL57755/2605
 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)	1984.43
	SLOPE (mV/dB)	25.6857

9 GHz	INTERCEPT (mV)	2002.98
	SLOPE (mV/dB)	24.7707

18 GHz	INTERCEPT (mV)	1932.63
	SLOPE (mV/dB)	24.2693

193	314	446	587	712	823	954	1074	1224	1372	1492	1602	1708	1854	1979
0	-7	-3	10	7	-10	-7	-15	7	27	19	1	-21	-3	-5
-0.02	-0.29	-0.13	0.38	0.27	-0.39	-0.27	-0.58	0.28	1.06	0.75	0.05	-0.80	-0.10	-0.21

248	385	526	654	782	904	1007	1127	1255	1386	1505	1618	1749	1885	2009
-21	-8	9	13	18	16	-5	-9	-5	2	-3	-13	-6	6	6
-0.85	-0.32	0.37	0.54	0.71	0.63	-0.21	-0.36	-0.20	0.09	-0.10	-0.54	-0.25	0.24	0.24

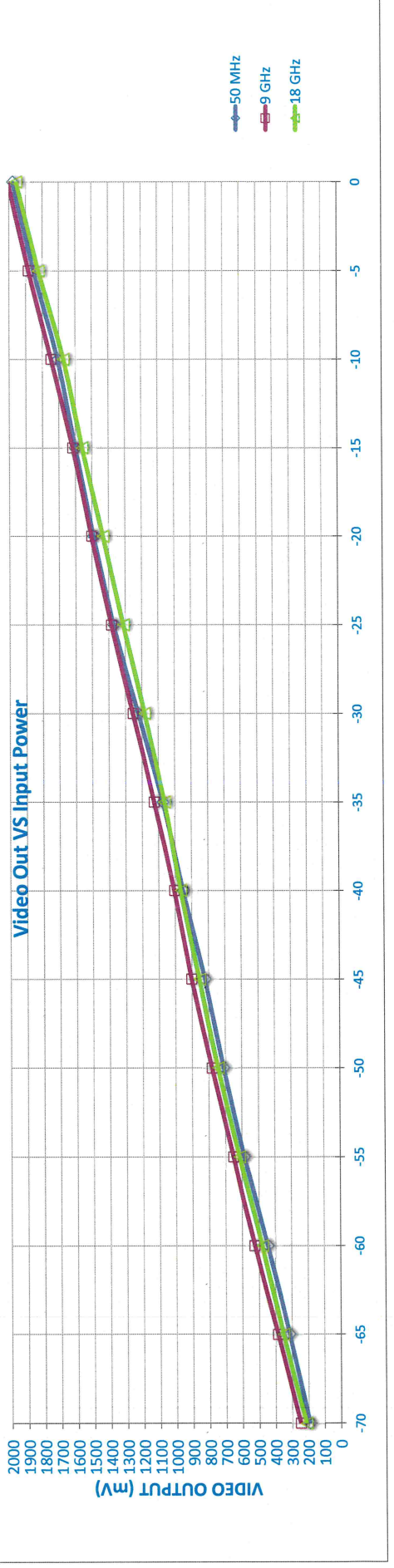
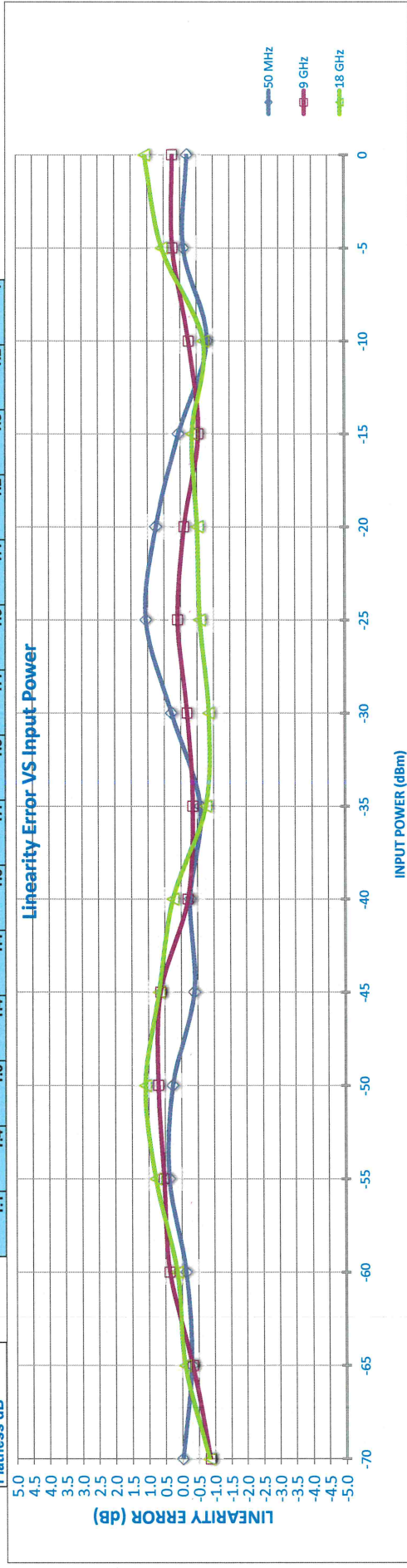
214	353	480	617	746	857	968	1065	1184	1312	1435	1560	1673	1825	1959
-20	-2	4	19	27	16	6	-18	-21	-14	-12	-9	-17	14	26
-0.81	-0.09	0.15	0.79	1.11	0.68	0.25	-0.75	-0.85	-0.57	-0.50	-0.35	-0.70	0.57	1.09

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	

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Error (mV)	
LINEARITY ERROR (dB)	

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Error (mV)	
LINEARITY ERROR (dB)	

Flatness dB	1.1	1.4	1.6	1.4	1.4	1.4	1.1	1.3	1.4	1.4	1.5	1.4	1.2	1.5	1.2	1
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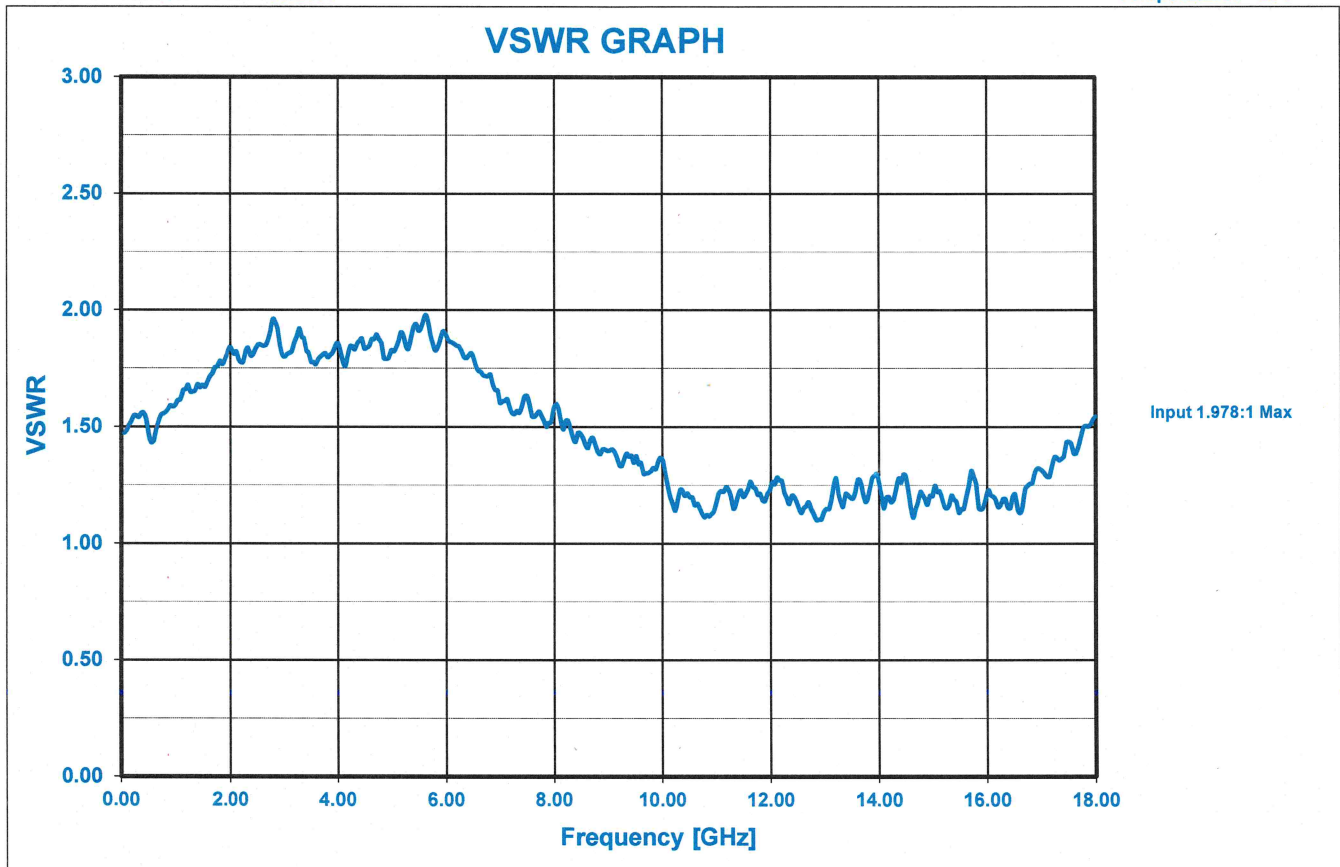


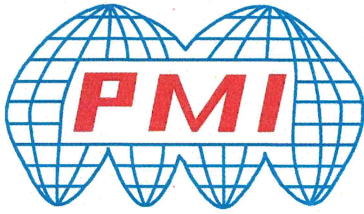


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SDLVA-50M18G-70**

Model Number: SDLVA-50M18G-70
Serial Number: PL57755/2605

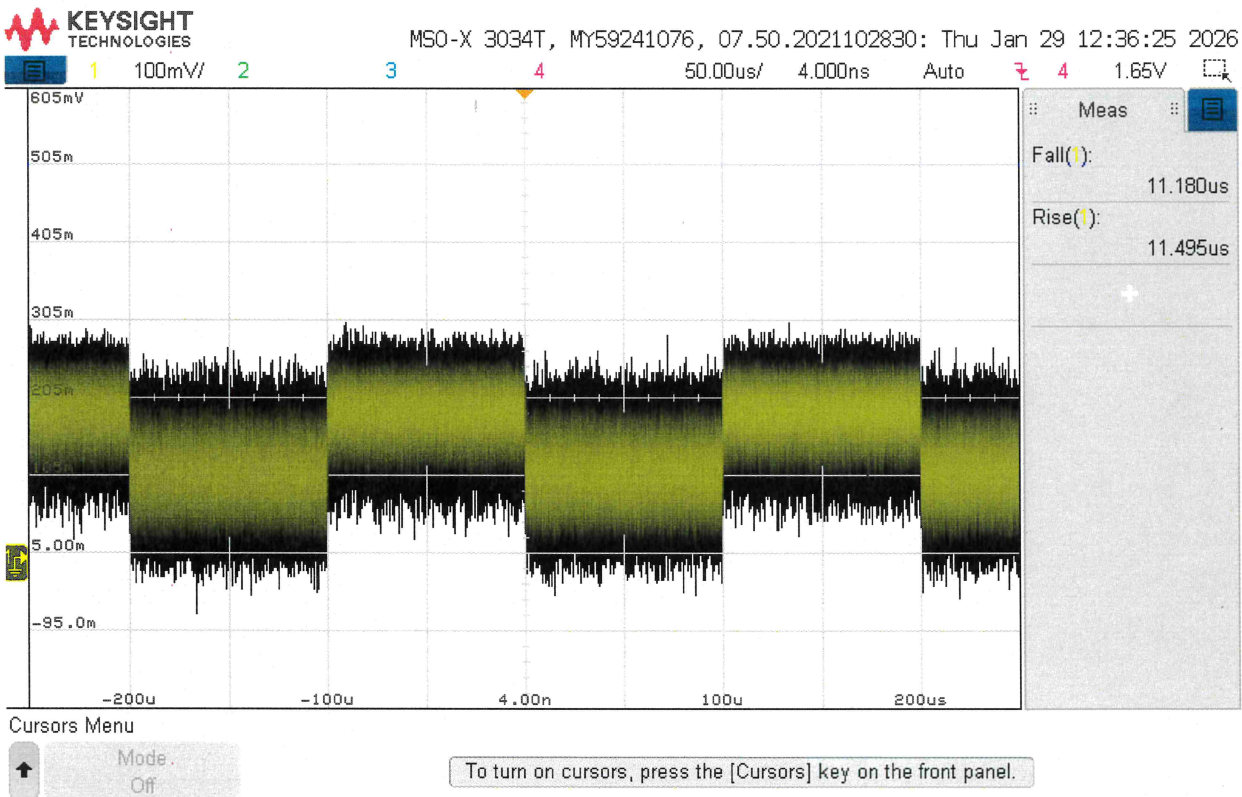
Temperature: +25C





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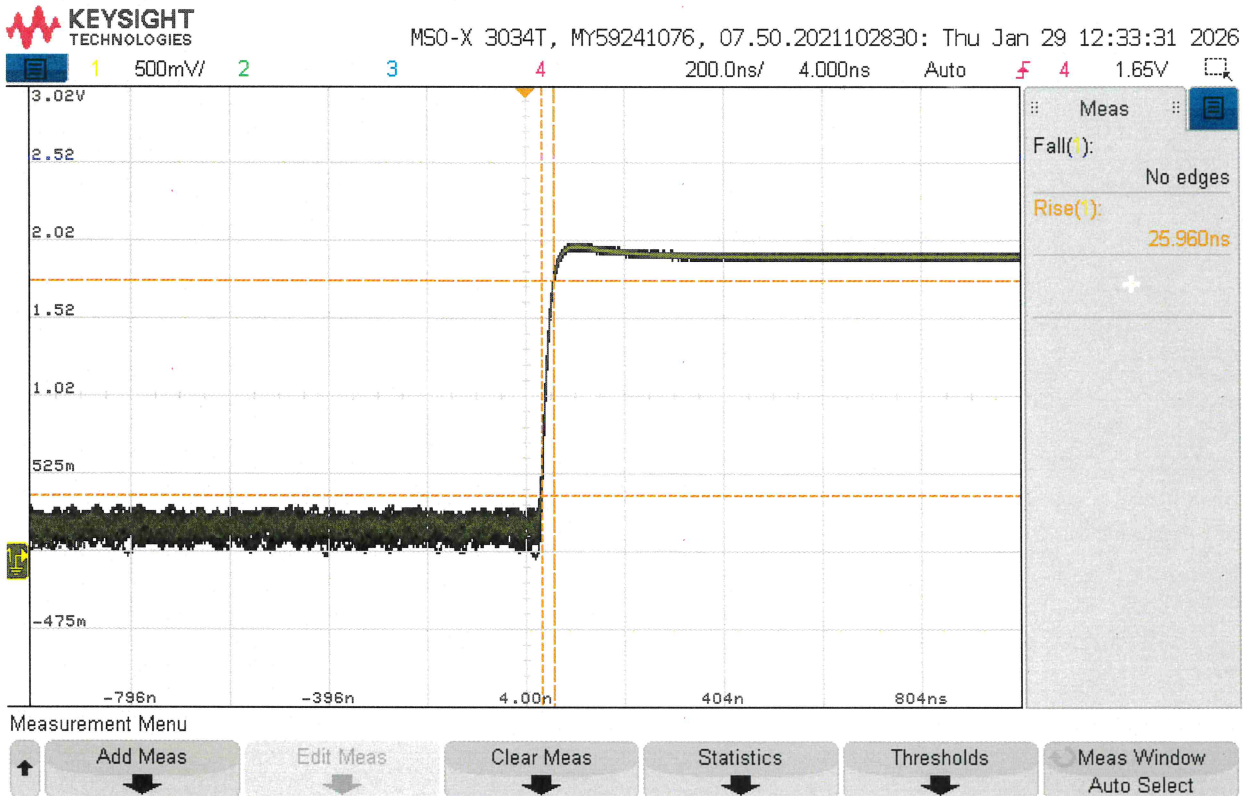
TSS = -70 dBm





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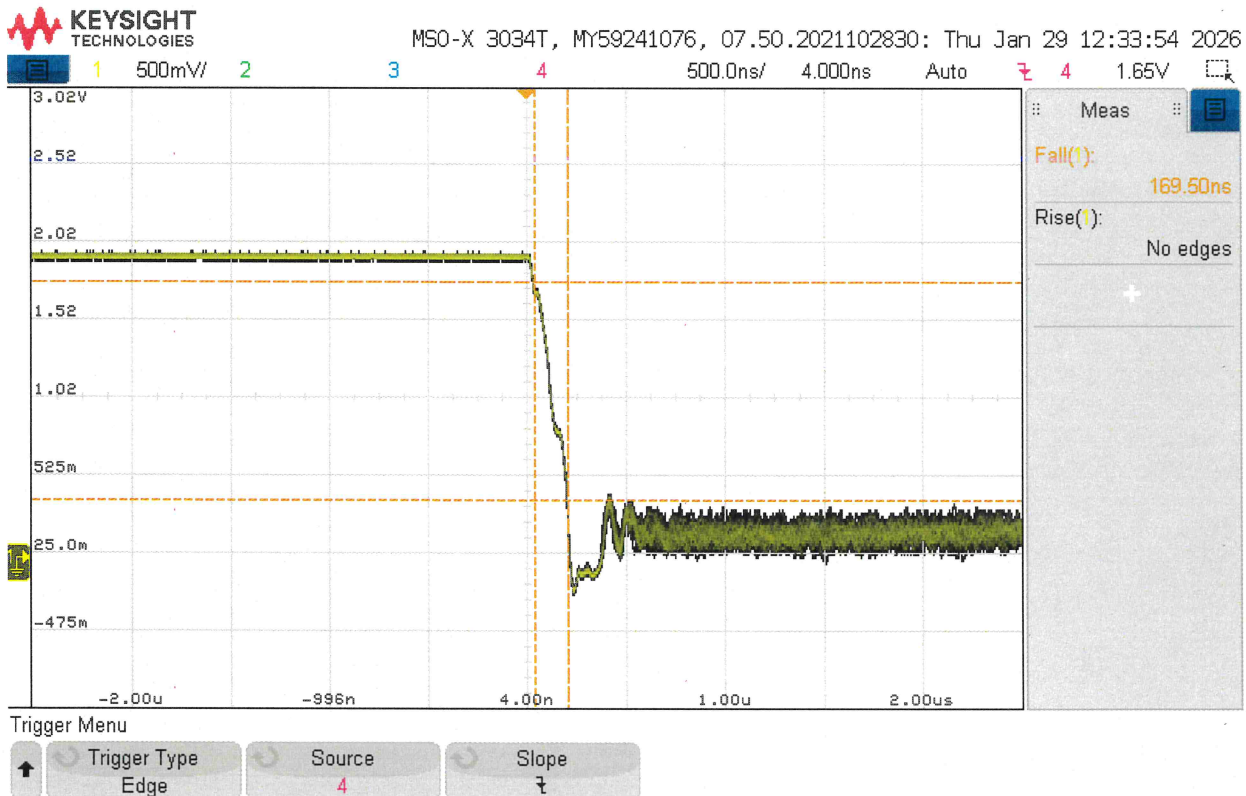
Rise Time = 25.96 ns





**SUMMARY TEST DATA
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Fall Time = 169.5 ns





**SUMMARY TEST DATA
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Recovery Time = 531 ns

