


SUMMARY TEST DATA ON SDLVA-50M18G-70

CUSTOMER: _____
SO: _____
MODEL NO: SDLVA-50M18G-70
SERIAL NO: PL57757/2605

TESTED BY: Daniel W.
TEMPERATURE: +25°C
DATE: 1/30/2026
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/QC 
2	Frequency Flatness	±2.0 dB Max	±1.2 dB	
3	TSS	-70 dBm Typ	-68 dBm	
4	VSWR	2.0:1 Max	1.84:1	
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	25.7 mV/dB Avg.	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	±1.29 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	29.28 ns	
12	Recovery Time	600 ns Max	588 ns	
13	Fall Time	400 ns MAX	139.37 ns	
14	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	< 400 mA < 200 mA	

QA/QC Approval: *K. K...*

Date: 1-30-26



PLANAR MONOLITHICS INDUSTRIES
 4921 ROBERT J. MATHEWS PARKWAY
 ELDORADO HILLS, CA 95762
 PH: 916-542-1401 FAX: 916-265-2597
 EMAIL: SALES@PMI-RF.COM

LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: Daniel W.
 TEST DATE: 1-27-26
 SERIAL NO: PL5775712605
 TEST TEMP: +25C

Frequency

RF Input Power (dBm)

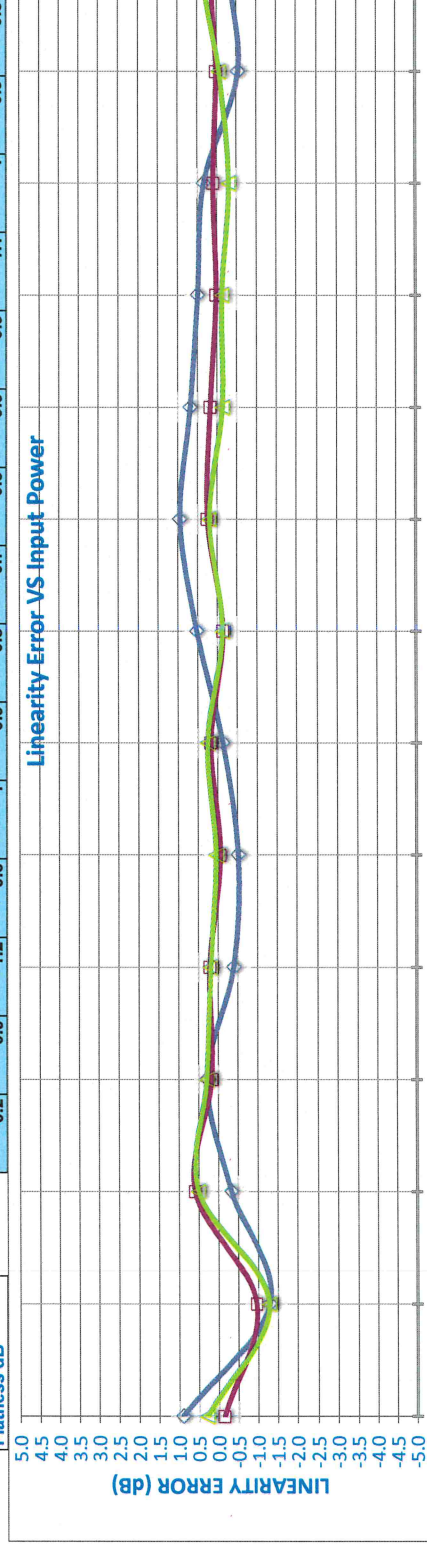
Frequency	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
50 MHz	232	305	460	606	718	845	985	1132	1273	1396	1521	1647	1754	1890	2010
	23	-34	-8	8	-10	-13	-3	14	25	18	13	9	-14	-8	-18
	0.90	-1.29	-0.33	0.29	-0.40	-0.51	-0.13	0.53	0.95	0.69	0.49	0.34	-0.54	-0.31	-0.69
9 GHz	244	352	521	639	769	891	1026	1147	1286	1413	1538	1669	1796	1927	2038
	-4	-25	15	5	6	-1	5	-3	7	5	1	3	1	3	-15
	-0.14	-0.95	0.60	0.18	0.21	-0.06	0.18	-0.13	0.26	0.18	0.03	0.10	0.03	0.11	-0.59
18 GHz	235	322	494	615	739	862	994	1111	1246	1364	1491	1613	1746	1883	1996
	7	-32	13	7	5	1	7	-3	5	-3	-8	-1	9	9	-4
	0.29	-1.27	0.52	0.29	0.19	0.05	0.26	-0.12	0.21	-0.13	-0.12	-0.30	-0.05	0.36	-0.18

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

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

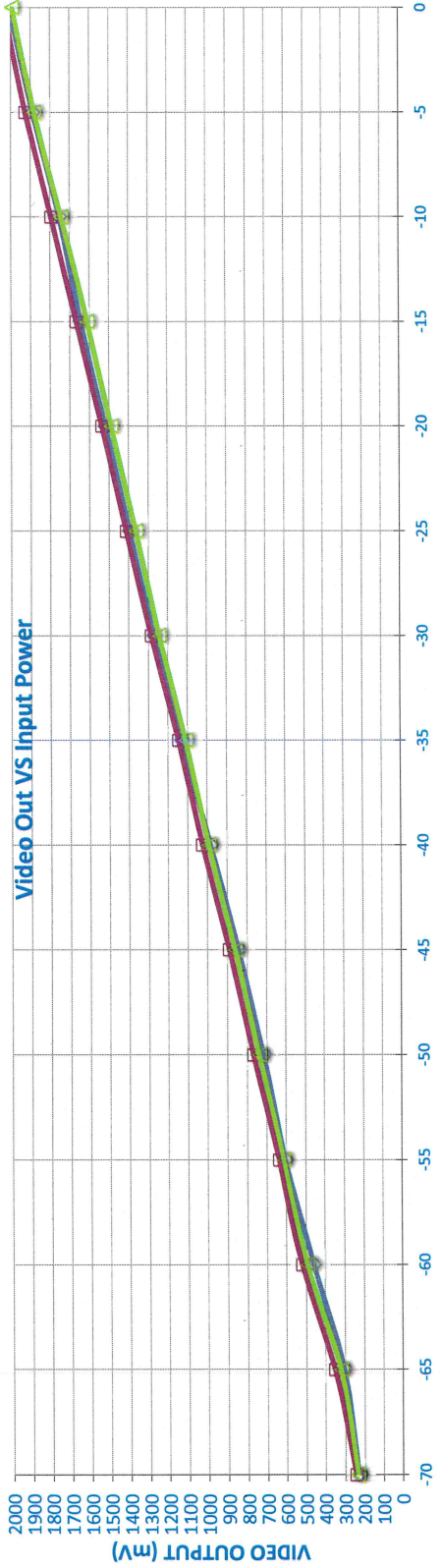
Measured Value (mV)
 Error (mV)
 LINEARITY ERROR (dB)

Flatness dB

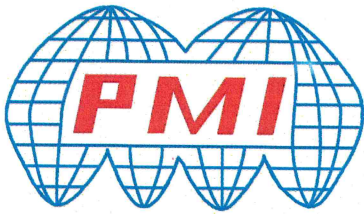


INPUT POWER (dBm)

Video Out VS Input Power



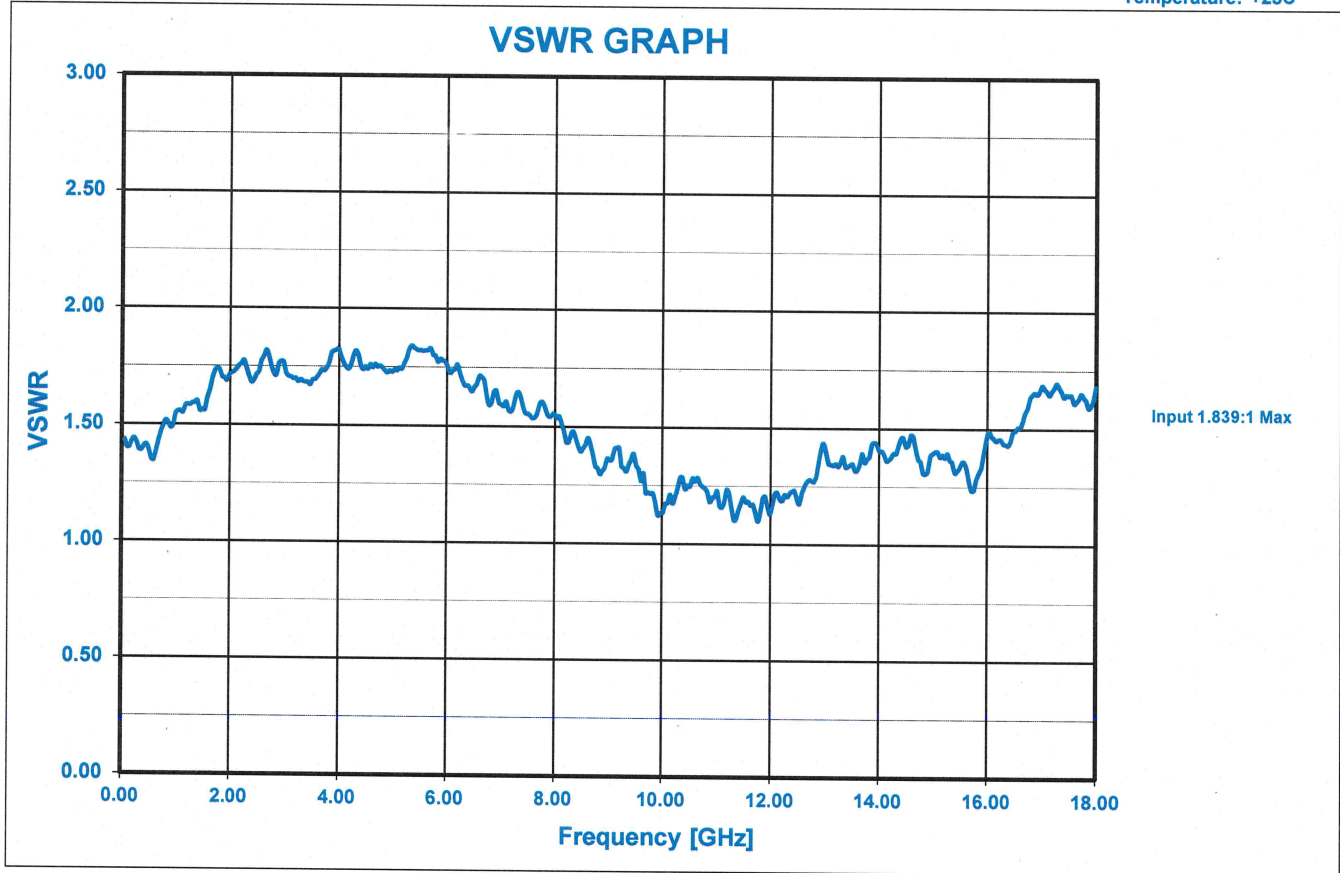
Legend for Video Out VS Input Power:
 - 50 MHz (Blue line with circles)
 - 9 GHz (Red line with squares)
 - 18 GHz (Green line with triangles)



**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

Model Number: SDLVA-50M18G-70
Serial Number: PL57757/2605

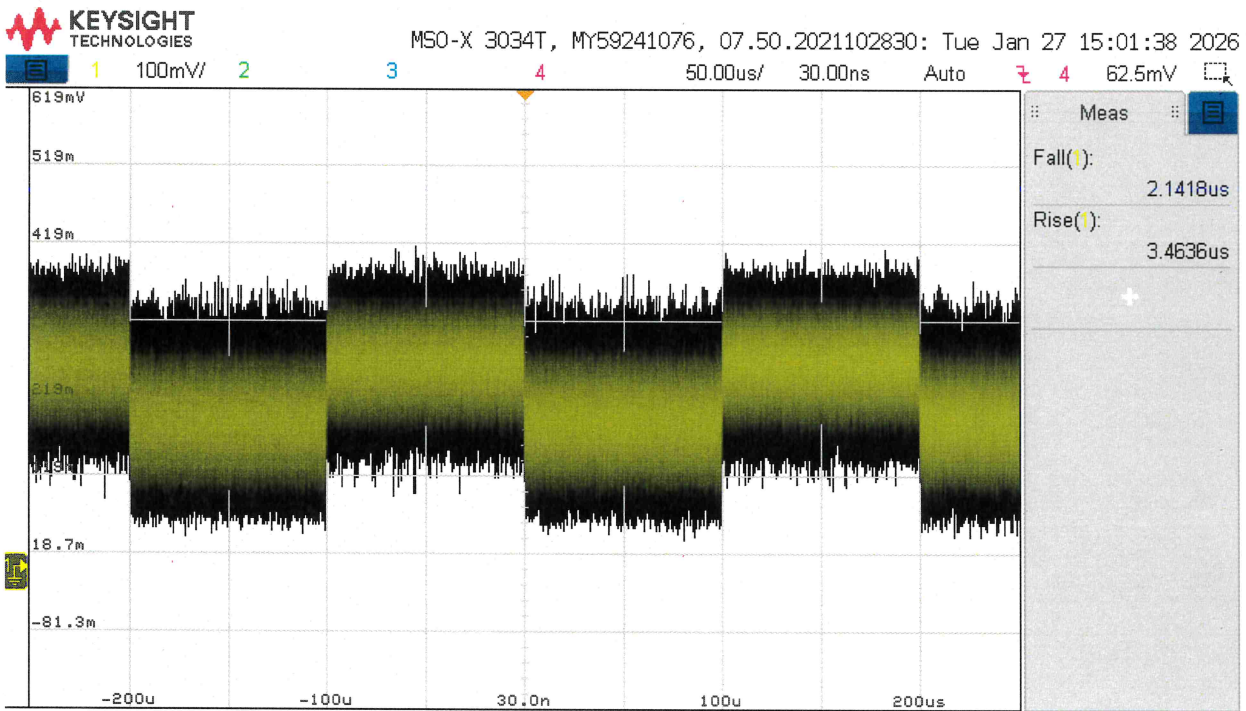
Temperature: +25C



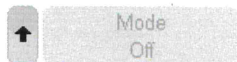


**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

TSS = -68 dBm



Cursors Menu

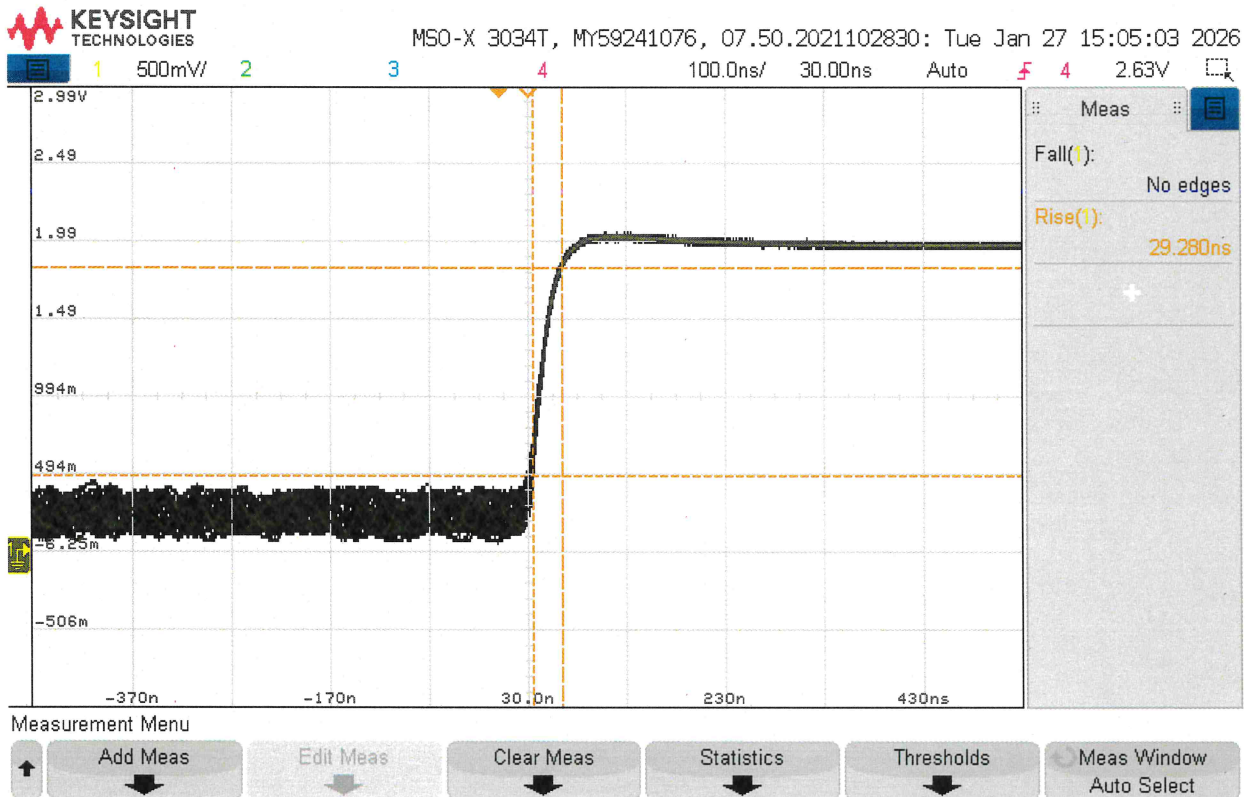


To turn on cursors, press the [Cursors] key on the front panel.



**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

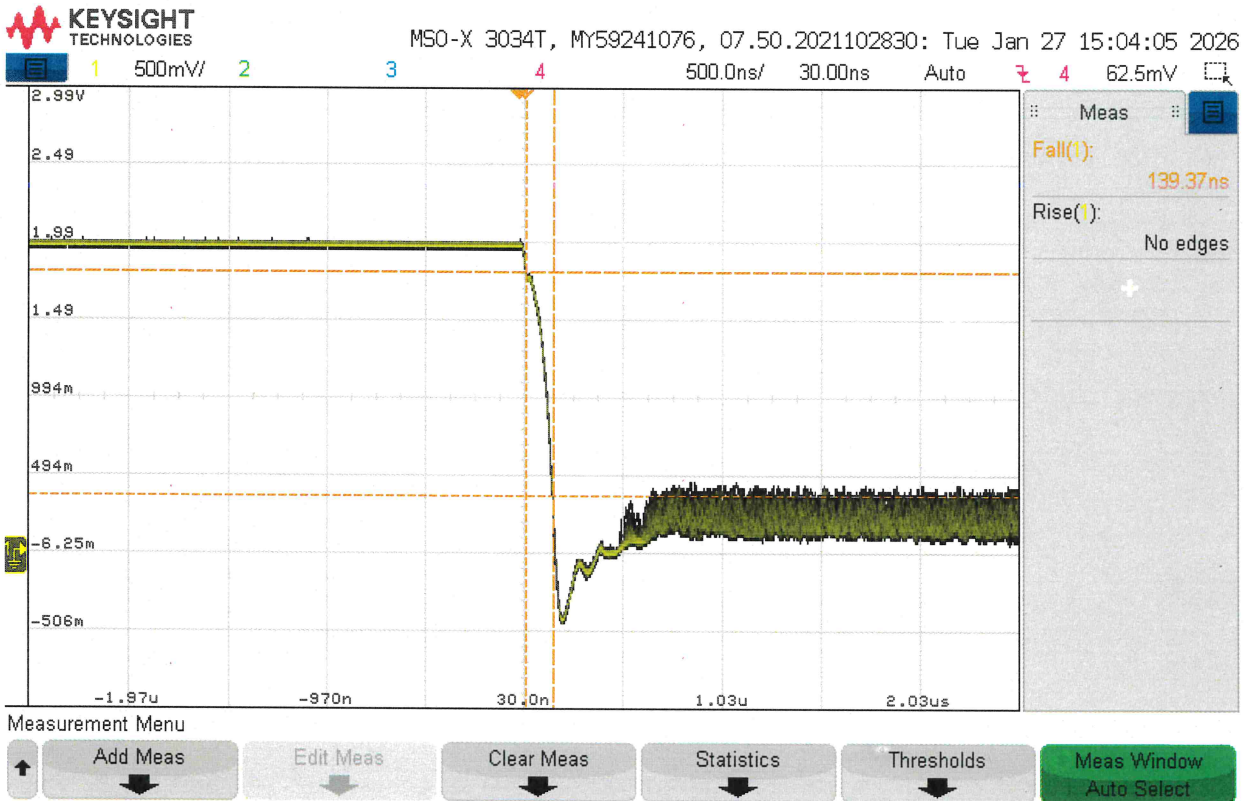
Rise Time = 29.28 ns





**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

Fall Time = 139.37 ns





SUMMARY TEST DATA ON SDLVA-50M18G-70

Recovery Time = 588 ns

