



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

PL53484/2526

Customer: _____ Tested By: J. Hopson
SO No: _____ Temperature: +25°C
Model No: SDLVA-50M18G-70 Serial _____ Date: 06/27/2025
No: PL53484/2526 Drawing No: 27629813 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	0.05 GHz to 18.0 GHz	0.05 GHz to 18.0 GHz See Plot	PMI QA3
2	Frequency Flatness	±2.0 dB Max	±0.90 dB	
3	TSS	-70 dBm Typ	-70.0 dBm	
4	VSWR	2.0:1 Max	1.75:1	
5	Video Comparator Output	5 V into 1 MΩ, 2.5 V into 50 Ω Typ	Pass	
6	Video Comparator Threshold Level	-60 dBm to 0 dBm (Operating Range) Threshold = V1±5% & ±25 mV (Hysteresis)	-60 dBm to 0 dBm	
7	Log Range	-70 dBm to 0 dBm	-70 dBm to 0 dBm	
8	Log Slope	25 mV/dB ±5% @ 50 Ω Load	24.0 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	+1.25 dB / -0.75 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	44.90 ns	
12	Recovery Time	400 ns Max	244.1 ns	
13	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	218 mA 152 mA	

QA/QC Approval: K. Mc Date: 6.30.25



SUMMARY TEST DATA ON SDLVA-50M18G-70

PL53484/2526

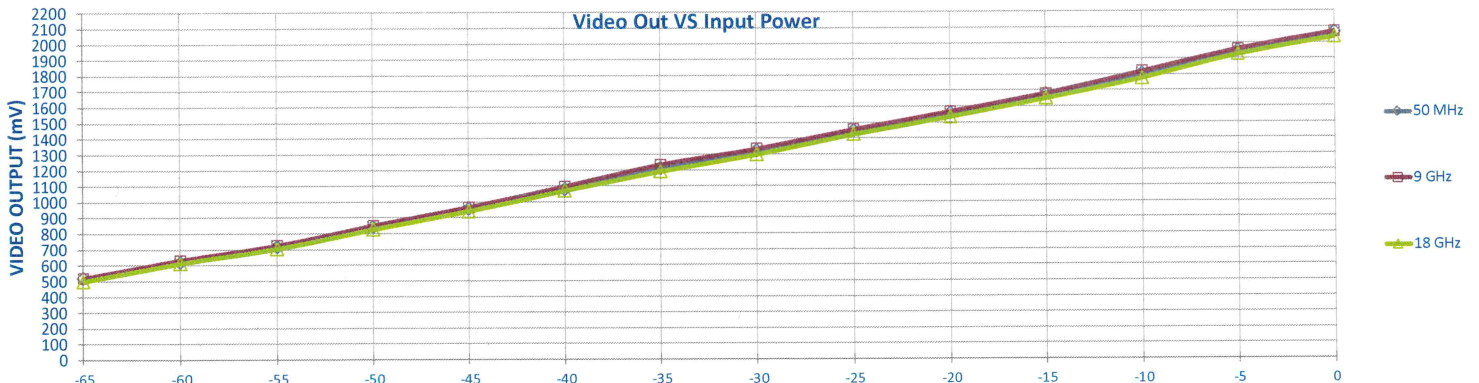
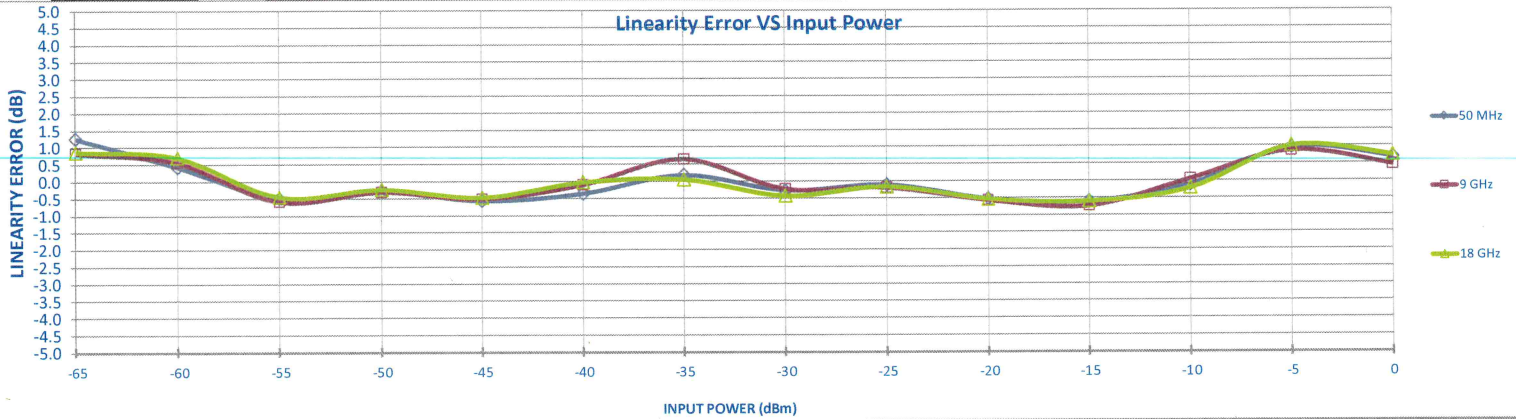
LOG TRANSFER WITH FREQUENCY @ +25°C
MODEL: SDLVA-50M18G-70
TESTED BY: J.Hopson
TEST DATE: 06/27/25
SERIAL NO: PL53484
TEST TEMP: +25C



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

Frequency

			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
50 MHz	INTERCEPT (mV)	2047	517	617	715	840	953	1078	1211	1320	1444	1554	1672	1804	1950	2063	Measured Value (mV)	
	SLOPE (mV/dB)	24.0	30	10	-12	-7	-14	-9	4	-7	-3	-13	-15	-3	23	16	Error (mV)	
			1.25	0.42	-0.50	-0.29	-0.58	-0.38	0.17	-0.29	-0.12	-0.54	-0.62	-0.12	0.96	0.67	LINEARITY ERROR (dB)	
9 GHz	INTERCEPT (mV)	2057	516	630	722	849	964	1094	1232	1331	1452	1563	1679	1818	1958	2068	Measured Value (mV)	
	SLOPE (mV/dB)	24	20	13	-15	-8	-13	-3	15	-6	-5	-14	-18	1	21	11	Error (mV)	
			0.82	0.54	-0.60	-0.32	-0.53	-0.11	0.63	-0.24	-0.21	-0.58	-0.75	0.04	0.87	0.45	LINEARITY ERROR (dB)	
18 GHz	INTERCEPT (mV)	2018	495	610	701	825	938	1067	1188	1295	1420	1530	1647	1775	1923	2035	Measured Value (mV)	
	SLOPE (mV/dB)	23.7	20	16	-11	-6	-12	-1	1	-11	-4	-13	-15	-6	24	17	Error (mV)	
			0.85	0.69	-0.47	-0.25	-0.49	-0.05	0.04	-0.45	-0.19	-0.55	-0.62	-0.23	1.00	0.72	LINEARITY ERROR (dB)	
Flatness dB			0.5	0.4	0.4	0.5	0.5	0.6	0.9	0.7	0.7	0.7	0.7	0.9	0.7	0.7		



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

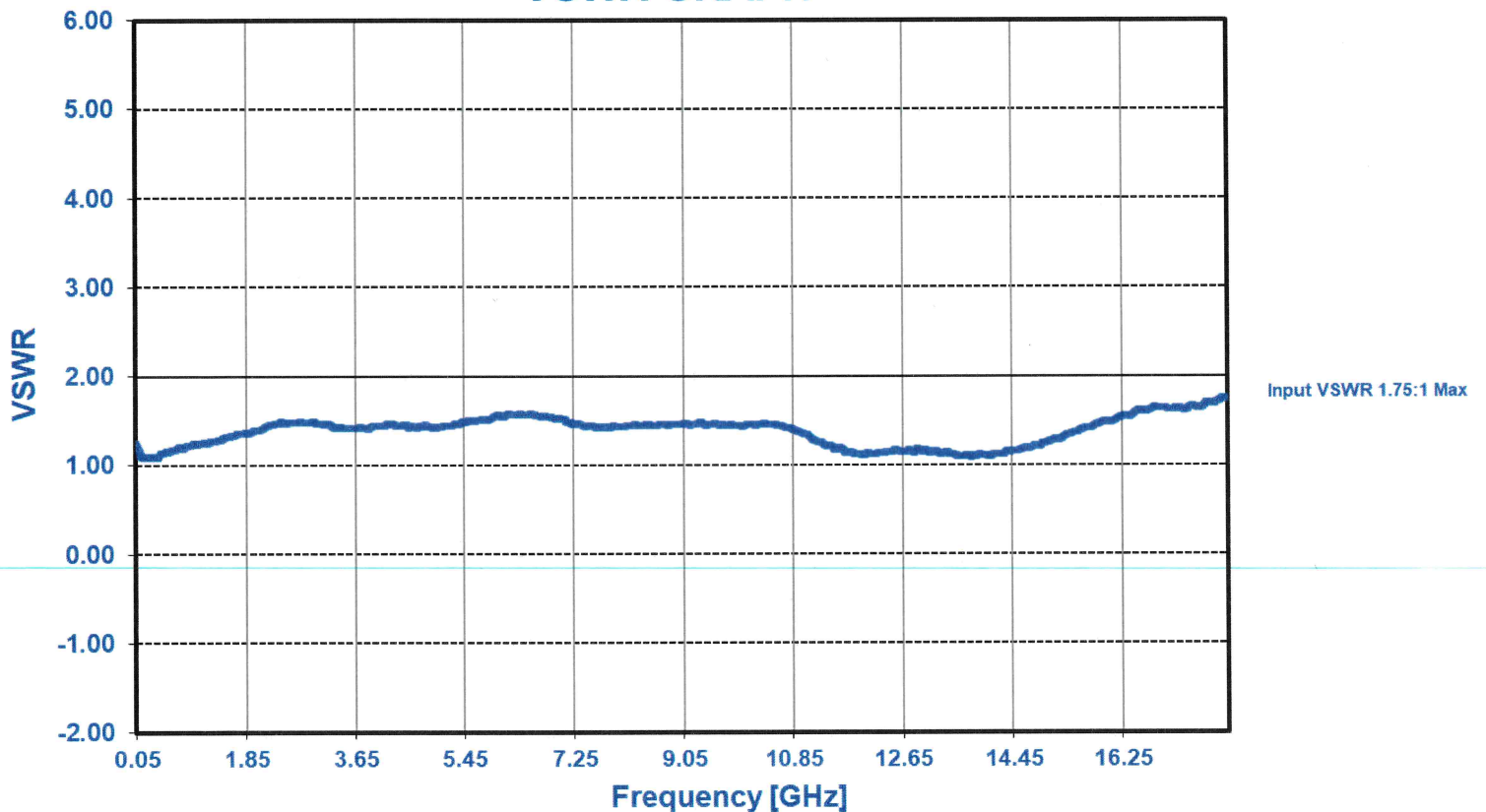


**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

PL53484/2526

INPUT VSWR

VSWR GRAPH

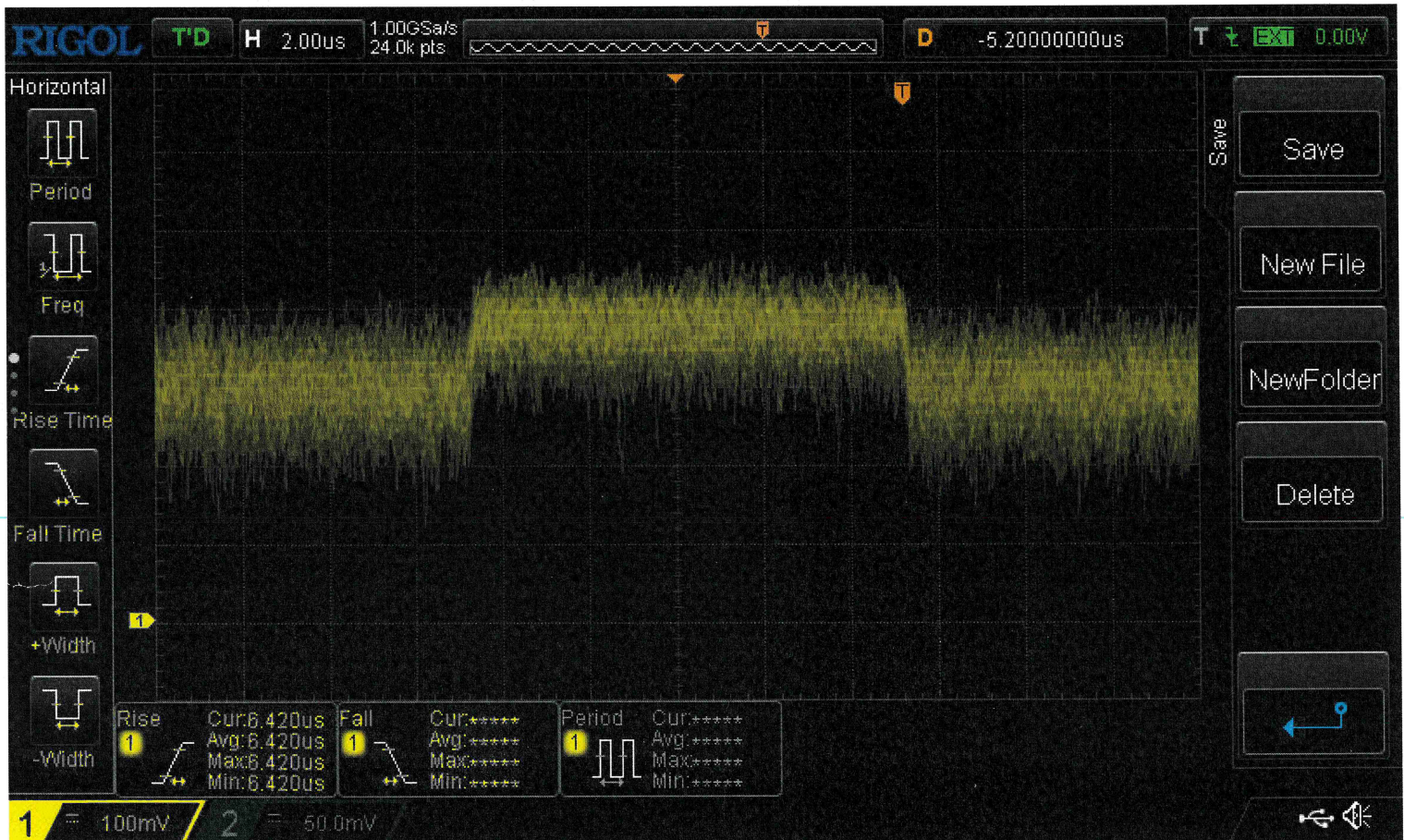




**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

PL53484/2526

TSS @ -70.0 dBm





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

PL53484/2526

RISE TIME / RECOVERY TIME

