



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

PL53483/2526

Customer: _____ Tested By: J. Hopson
SO No: _____ Temperature: +25°C
Model No: SDLVA-50M18G-70 Date: 06/27/2025
Serial No: PL53483/2526 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	±1.2 dB	
3	TSS	-70 dBm Typ	-69.5dBm	
4	VSWR	2.0:1 Max	1.74:1	
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	25.08 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	+0.62 / -1.40 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	45.01 ns	
12	Recovery Time	400 ns Max	181.5 ns	
13	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	218 mA 152 mA	

QA/QC Approval: K. Klu Date: 6/30/25



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LOG TRANSFER WITH FREQUENCY @ +25°C
MODEL: SDLVA-50M18G-70
TESTED BY: J.Hopson
TEST DATE: 06/27/2025
SERIAL NO: PL53483
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
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Frequency

100 MHz INTERCEPT (mV) 1887
SLOPE (mV/dB) 24.96

9.1 GHz INTERCEPT (mV) 1884
SLOPE (mV/dB) 25.08

18 GHz INTERCEPT (mV) 1836
SLOPE (mV/dB) 24.42

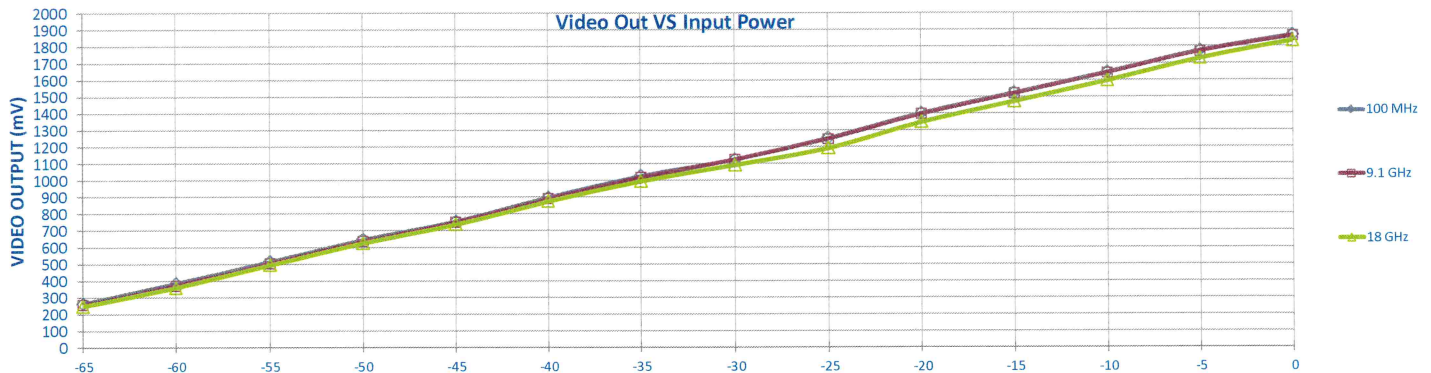
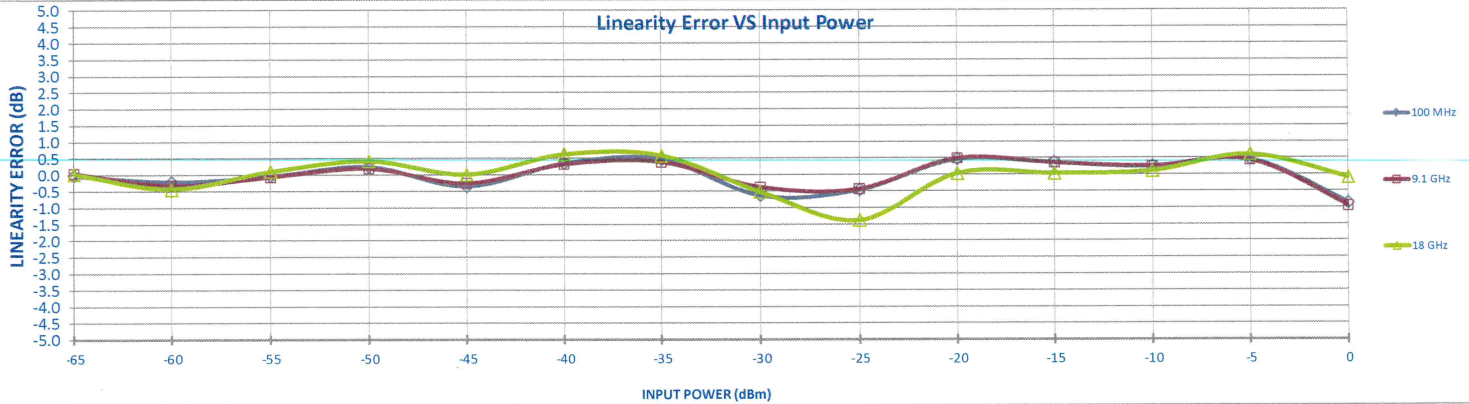
-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
264	384	513	645	755	897	1025	1122	1251	1399	1521	1643	1773	1865
0	-5	-1	6	-9	9	12	-16	-12	12	9	6	11	-22
-0.02	-0.21	-0.04	0.25	-0.34	0.35	0.48	-0.64	-0.47	0.46	0.35	0.24	0.45	-0.86
255	371	503	635	749	889	1016	1122	1246	1395	1517	1640	1770	1860
1	-8	-2	5	-7	8	10	-10	-11	12	9	6	11	-24
0.04	-0.33	-0.07	0.19	-0.26	0.32	0.38	-0.39	-0.45	0.49	0.35	0.26	0.44	-0.97
249	360	495	625	737	874	995	1090	1191	1348	1470	1594	1728	1833
0	-11	2	10	0	15	14	-13	-34	1	1	3	14	-3
0.02	-0.44	0.09	0.42	0.01	0.62	0.57	-0.54	-1.40	0.03	0.03	0.10	0.59	-0.11
0.3	0.5	0.4	0.4	0.4	0.5	0.6	0.6	1.2	1	1	1	0.9	0

RF Input Power (dBm)

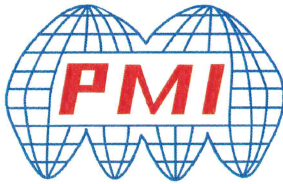
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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

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



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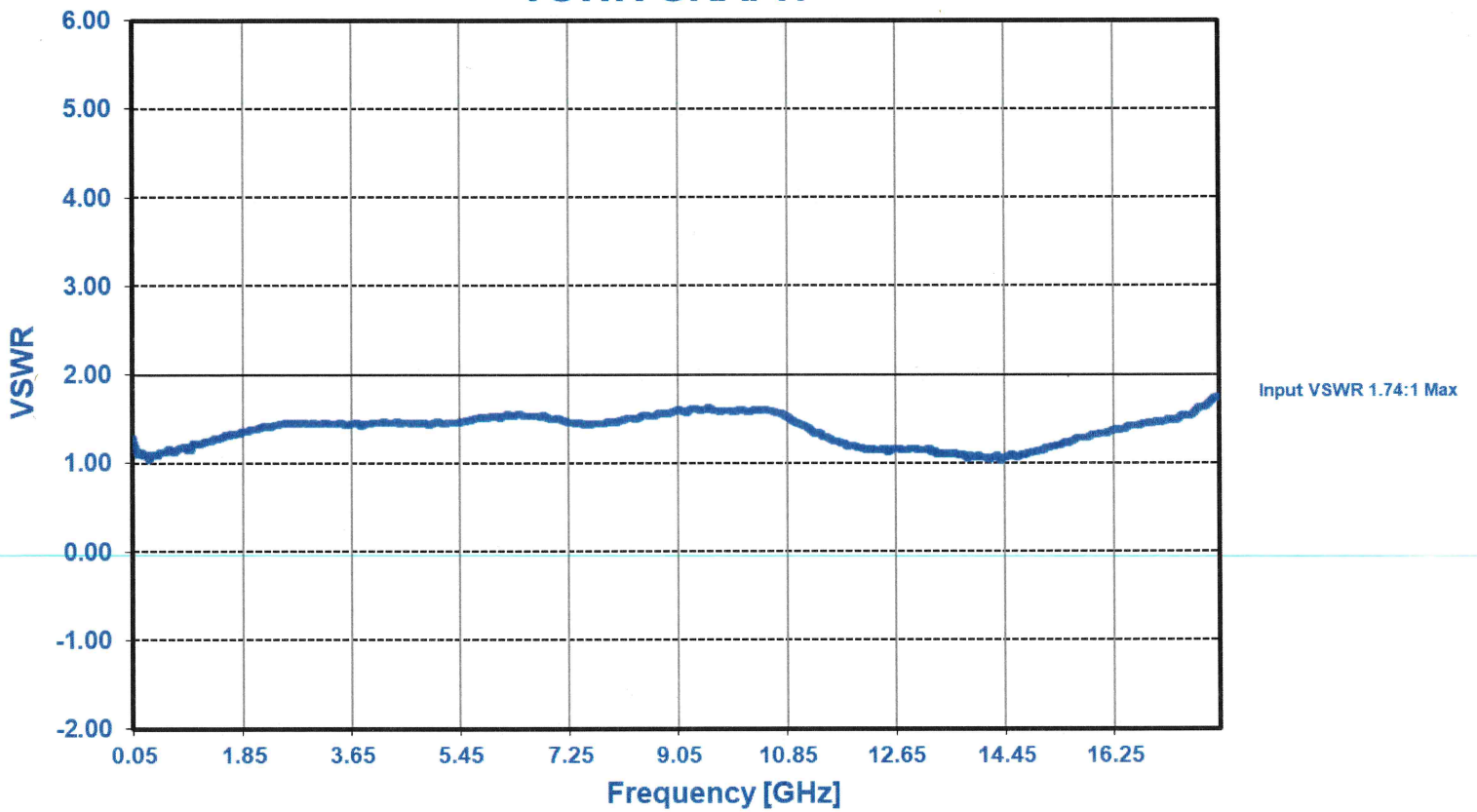


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INPUT VSWR

VSWR GRAPH

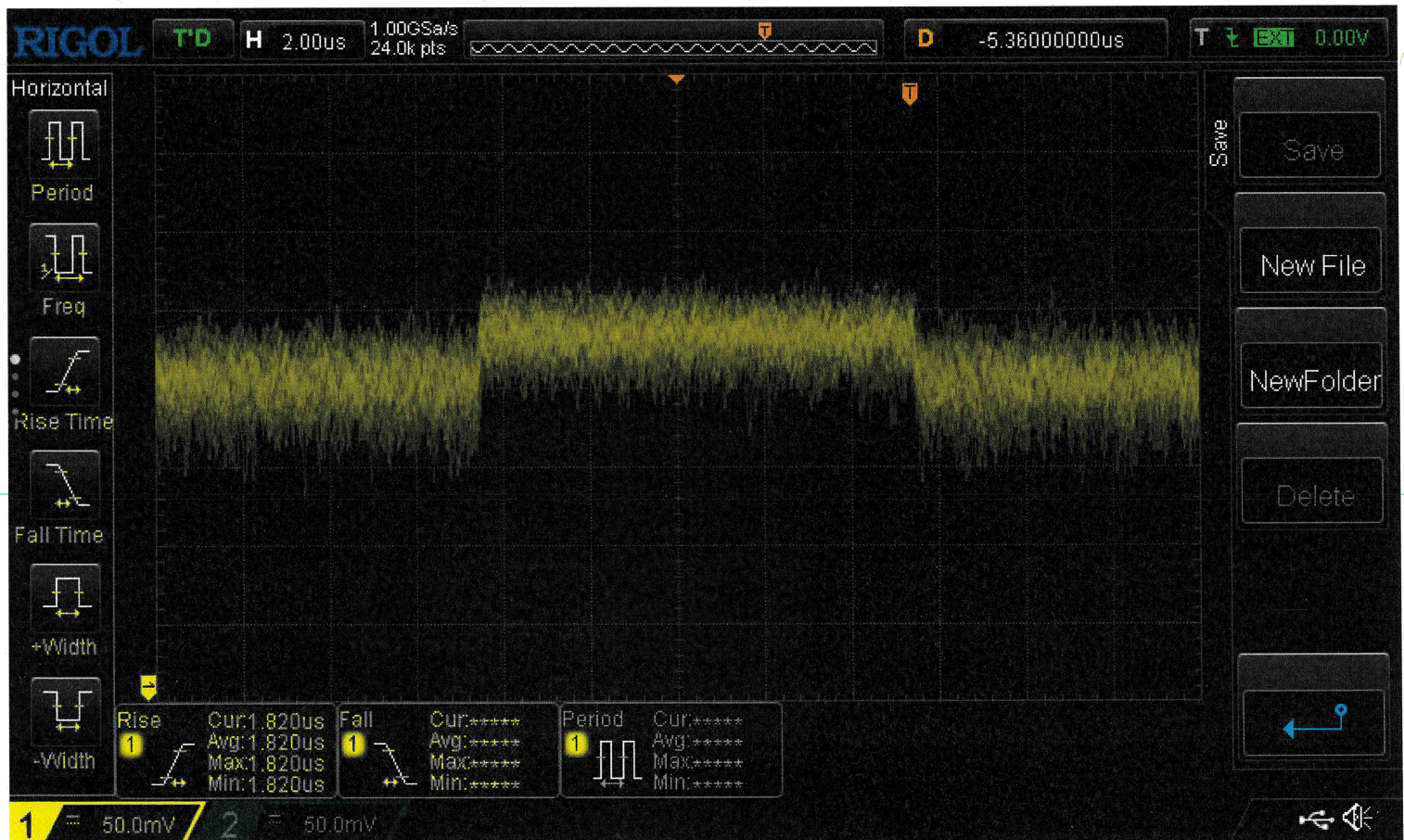




**SUMMARY TEST DATA
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TSS @ -69.5 dBm





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RISE TIME / RECOVERY TIME

