



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

PL26736/1942

Customer: _____	Tested By: <u>J. Emperador</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-50M18G-70</u>	Date: <u>10/16/19</u>
Serial No: <u>PL26736/1942</u>	Drawing No: <u>27629813</u> Rev: <u>A1</u>

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	
2	Frequency Flatness	±2.0 dB Max	±1.5 dB	
3	TSS	-70 dBm Typ	-68.0 dBm	
4	VSWR	2.0:1 Max	1.95:1	
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	-65 dBm to 0 dBm	
8	Log Slope	25 mV/dB ±5% @ 50 Ω Load	25.71 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	1.15 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	38 ns	
12	Recovery Time	400 ns Max	390 ns	
13	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	218 mA 152 mA	

QA/QC Approval: *A Zimmerman* Date: 10-22-19

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



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LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: J.Emperador
 TEST DATE: 10/16/19
 SERIAL NO: PL26736
 TEST TEMP: +25C

Vos = -21 mV



PLANAR MONOLITHICS INDUSTRIES
 4921 ROBERT J. MATHEWS PARKWAY
 EL DORADO 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
50 MHz	INTERCEPT (mV)	41	146	280	422	533	677	798	921	1031	1160	1297	1418	1513	1644
	SLOPE (mV/dB)	0	-19	-9	8	-5	15	12	10	-4	1	13	10	-19	-13
9 GHz	INTERCEPT (mV)	56	177	303	443	570	710	841	951	1090	1229	1351	1468	1590	1715
	SLOPE (mV/dB)	-1	-8	-11	1	-1	10	13	-6	5	15	9	-3	-10	-13
18 GHz	INTERCEPT (mV)	67	190	314	447	574	715	840	938	1050	1175	1295	1420	1530	1667
	SLOPE (mV/dB)	-13	-12	-10	1	6	25	28	4	-6	-3	-5	-2	-14	1

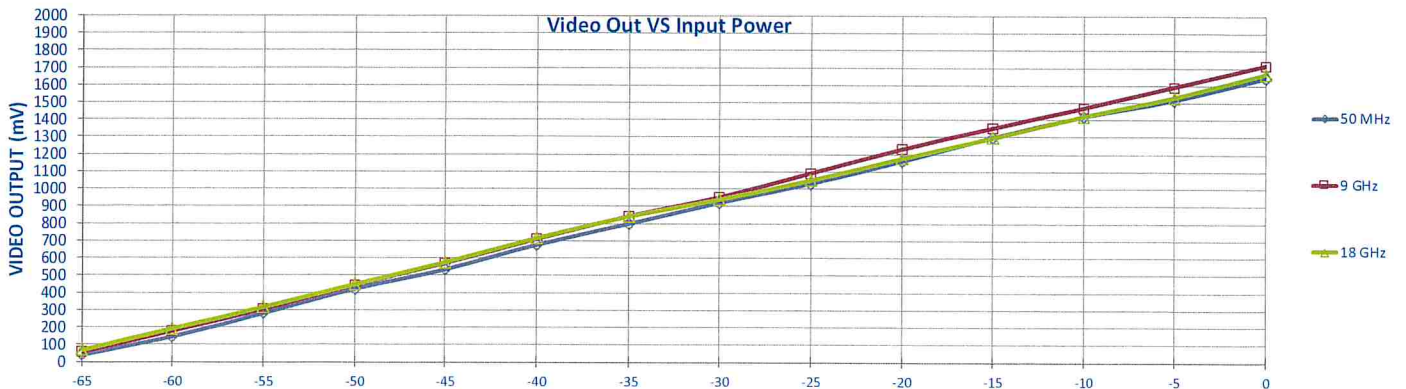
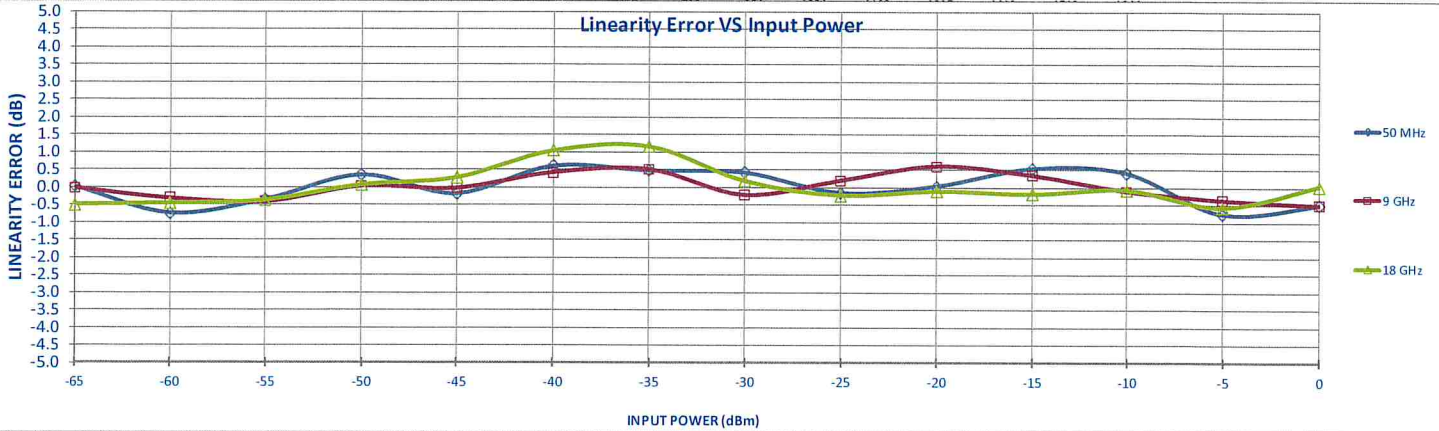
RF Input Power (dBm)

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

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

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

Flatness dB	0.5	0.9	0.7	0.5	0.8	0.7	0.8	0.6	1.1	1.3	1.1	1	1.5	1.4
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INPUT VSWR

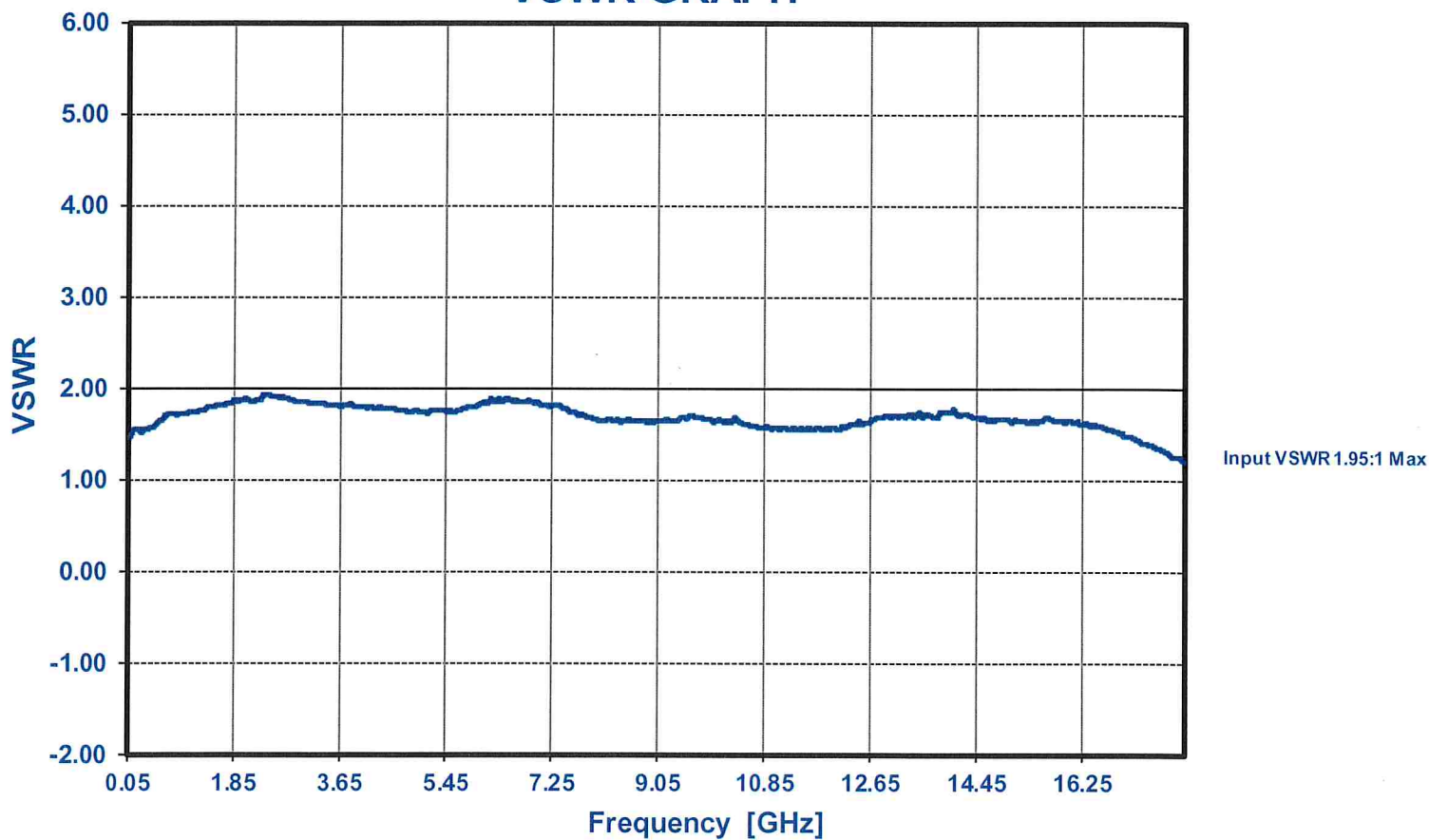
Model Number: SDLVA-50M18G-70

Serial Number: PL26736

Date: 10/16/2019

Temperature: +25C

VSWR GRAPH

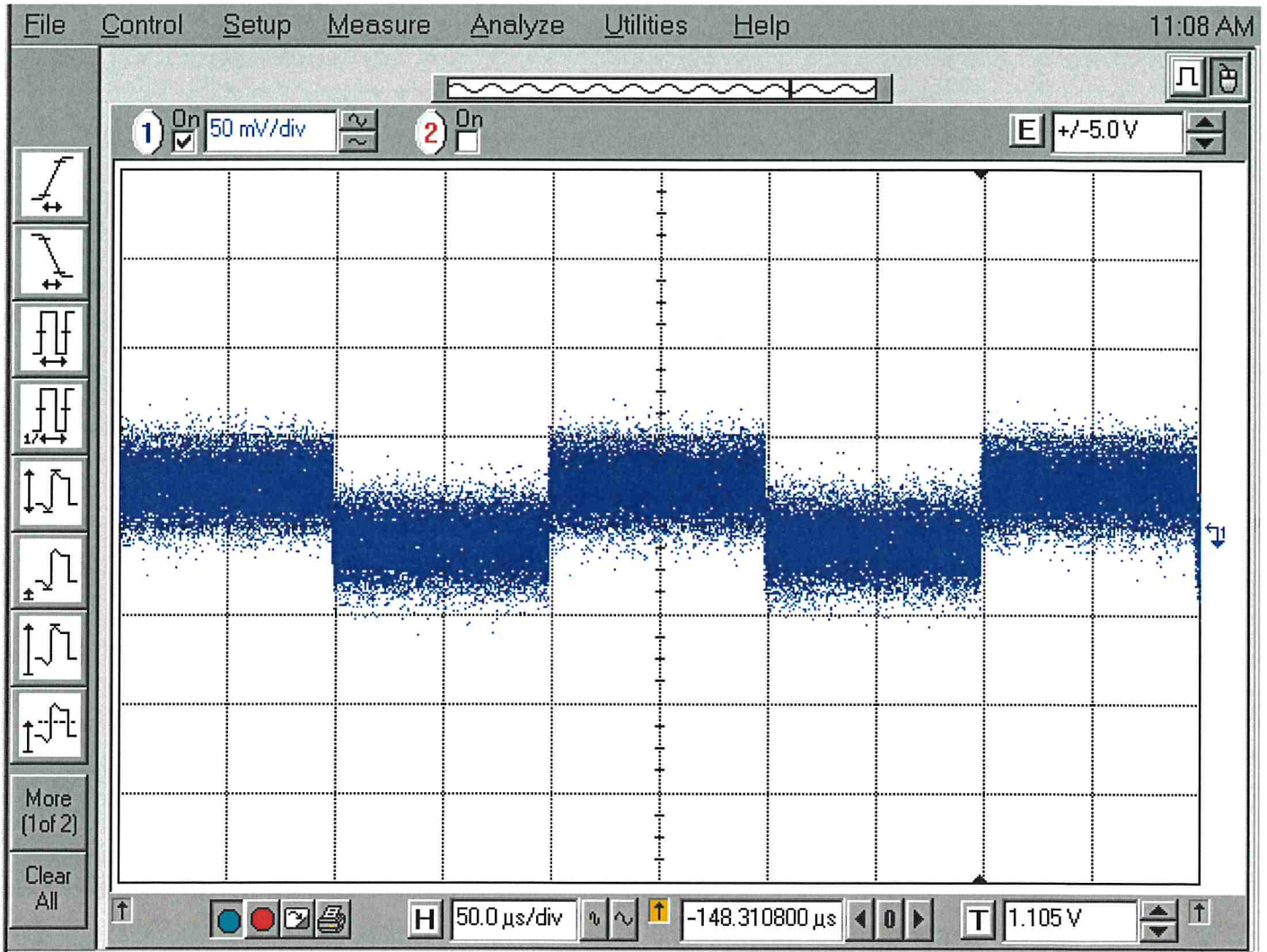




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TSS @ -68.0 dBm

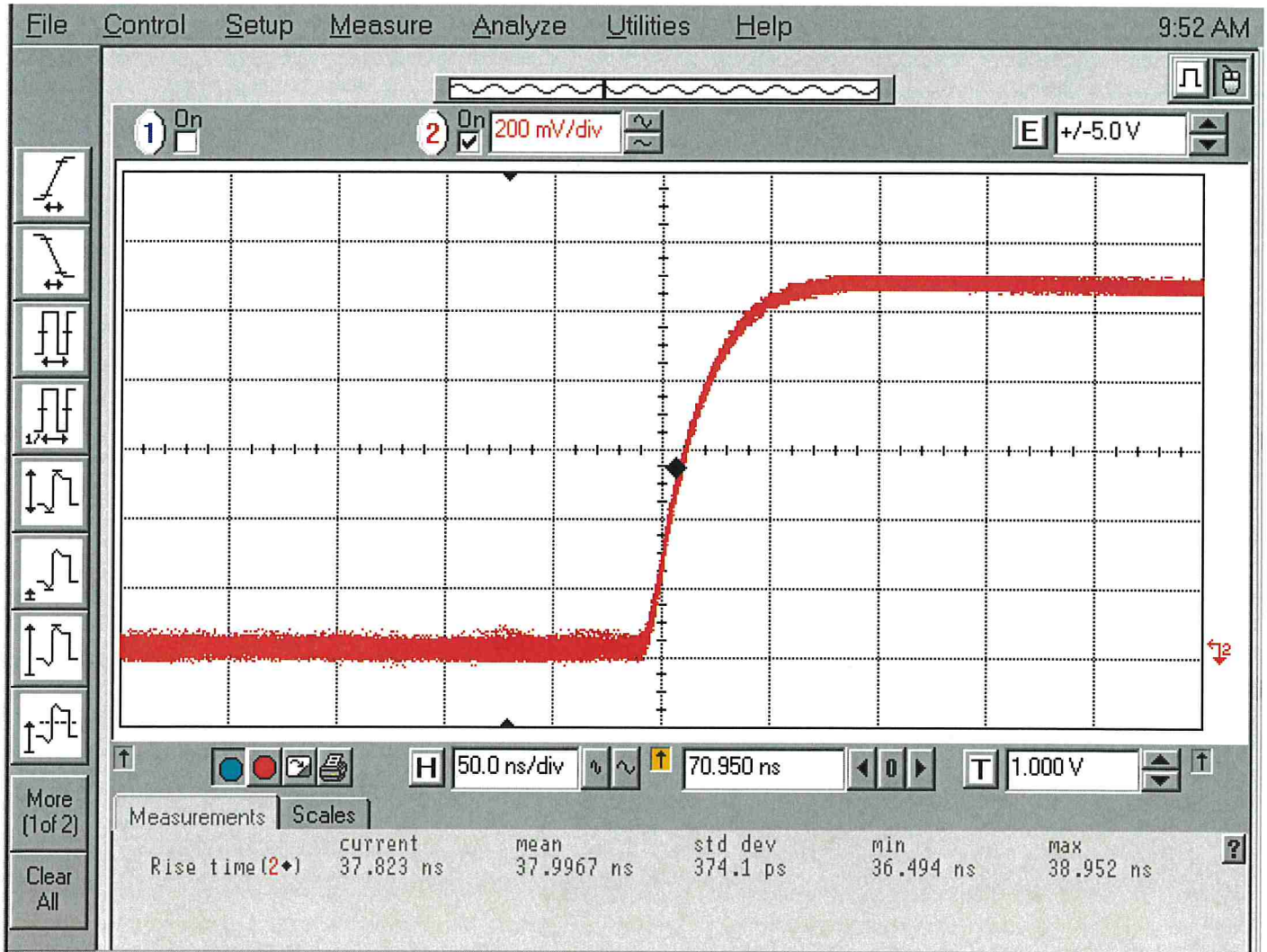




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RISE TIME





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RECOVERY TIME

