



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

PL26735/1942

Customer: _____ Tested By: J. Emperador
SO No: _____ Temperature: +25°C
Model No: SDLVA-50M18G-70 Date: 10/16/19
Serial No: PL26735/1942 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 | |
| 2 | Frequency Flatness | ±2.0 dB Max | ±1.8 dB | |
| 3 | TSS | -70 dBm Typ | -69.5 dBm | |
| 4 | VSWR | 2.0:1 Max | 1.96:1 | |
| 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 | 26.13 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 | 39 ns | |
| 12 | Recovery Time | 400 ns Max | 381 ns | |
| 13 | DC Supply | +12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA | 220 mA 156 mA | |

QA/QC Approval: *a zimmerman* Date: 10-22-19

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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: PL26735
 TEST TEMP: +25C

Vos= 25 mV

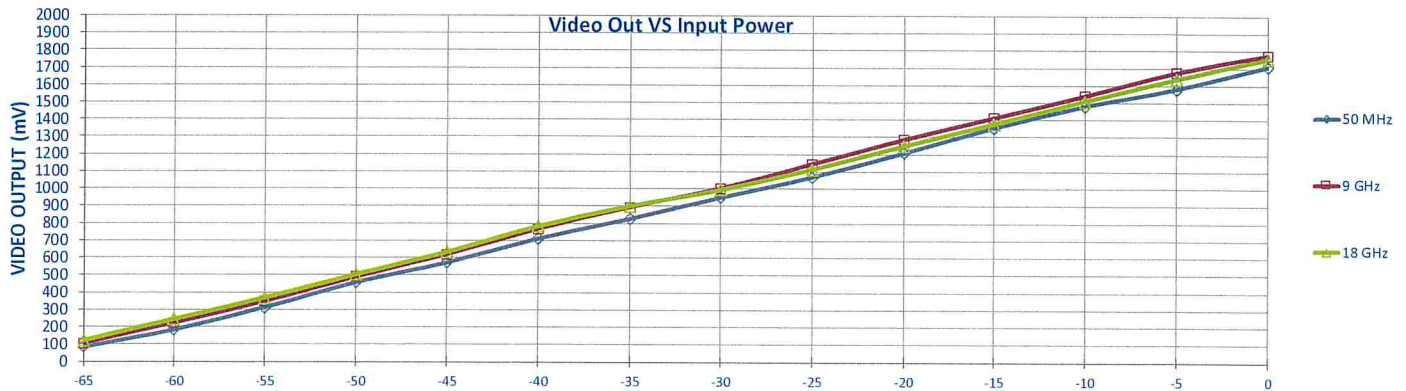
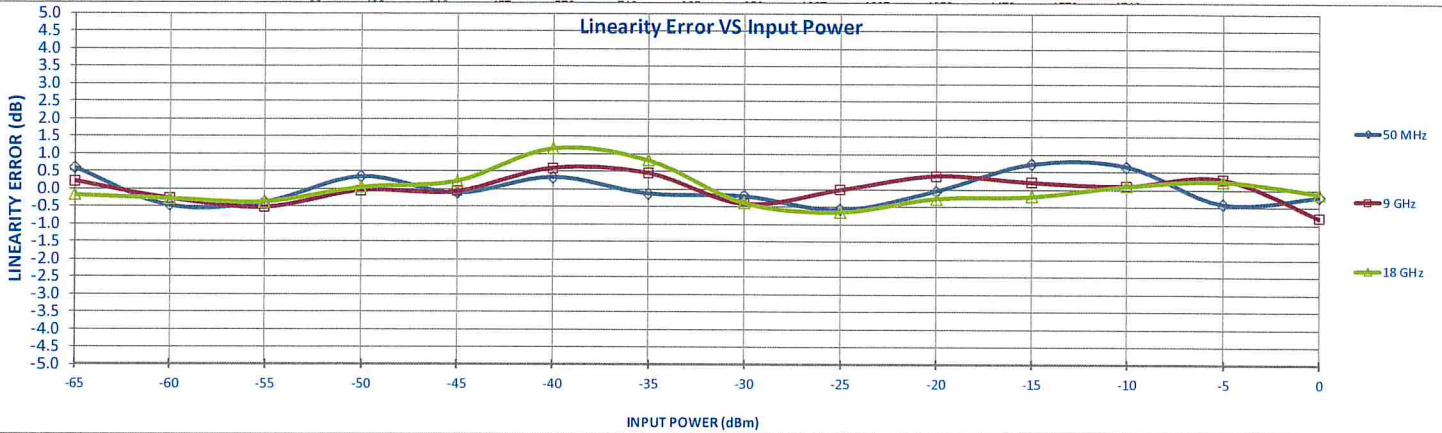


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 EMAIL: SALES@PMI-RF.COM

Frequency

| | | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 |
|-------------|----------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|
| 50 MHz | INTERCEPT (mV) | 83 | 183 | 312 | 457 | 572 | 710 | 825 | 950 | 1067 | 1207 | 1353 | 1478 | 1578 | 1710 |
| | SLOPE (mV/dB) | 15 | -12 | -10 | 9 | -3 | 8 | -3 | -5 | -15 | -1 | 18 | 16 | -10 | -5 |
| | | 0.57 | -0.48 | -0.39 | 0.34 | -0.12 | 0.32 | -0.14 | -0.20 | -0.58 | -0.06 | 0.71 | 0.64 | -0.41 | -0.20 |
| 9 GHz | INTERCEPT (mV) | 104 | 222 | 346 | 489 | 619 | 767 | 894 | 1002 | 1143 | 1284 | 1410 | 1538 | 1674 | 1776 |
| | SLOPE (mV/dB) | 5 | -7 | -14 | -1 | -2 | 15 | 12 | -11 | -1 | 10 | 5 | 2 | 8 | -21 |
| | | 0.21 | -0.27 | -0.53 | -0.06 | -0.08 | 0.58 | 0.44 | -0.42 | -0.03 | 0.37 | 0.19 | 0.09 | 0.30 | -0.80 |
| 18 GHz | INTERCEPT (mV) | 120 | 243 | 366 | 502 | 632 | 781 | 898 | 993 | 1112 | 1247 | 1374 | 1507 | 1636 | 1753 |
| | SLOPE (mV/dB) | -5 | -7 | -10 | 1 | 5 | 29 | 20 | -10 | -16 | -7 | -5 | 2 | 6 | -3 |
| | | -0.19 | -0.29 | -0.39 | 0.03 | 0.21 | 1.15 | 0.81 | -0.40 | -0.66 | -0.28 | -0.22 | 0.08 | 0.22 | -0.11 |
| Flatness dB | | 0.7 | 1.1 | 1 | 0.9 | 1.1 | 1.4 | 1.4 | 1 | 1.5 | 1.5 | 1.1 | 1.1 | 1.8 | 1.3 |

| 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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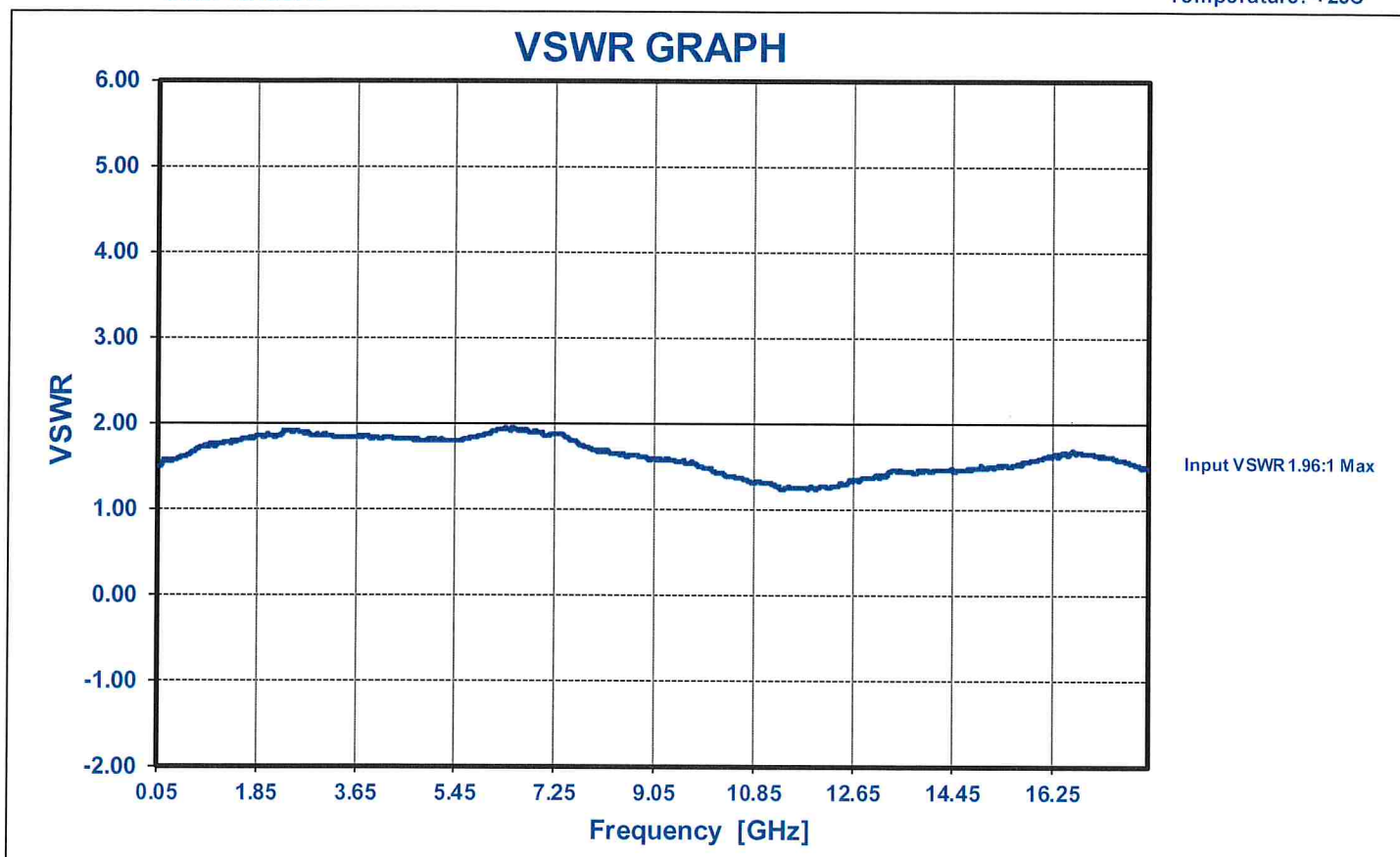
INPUT VSWR

Model Number: SDLVA-50M18G-70

Serial Number: PL26735

Date: 10/16/2019

Temperature: +25C

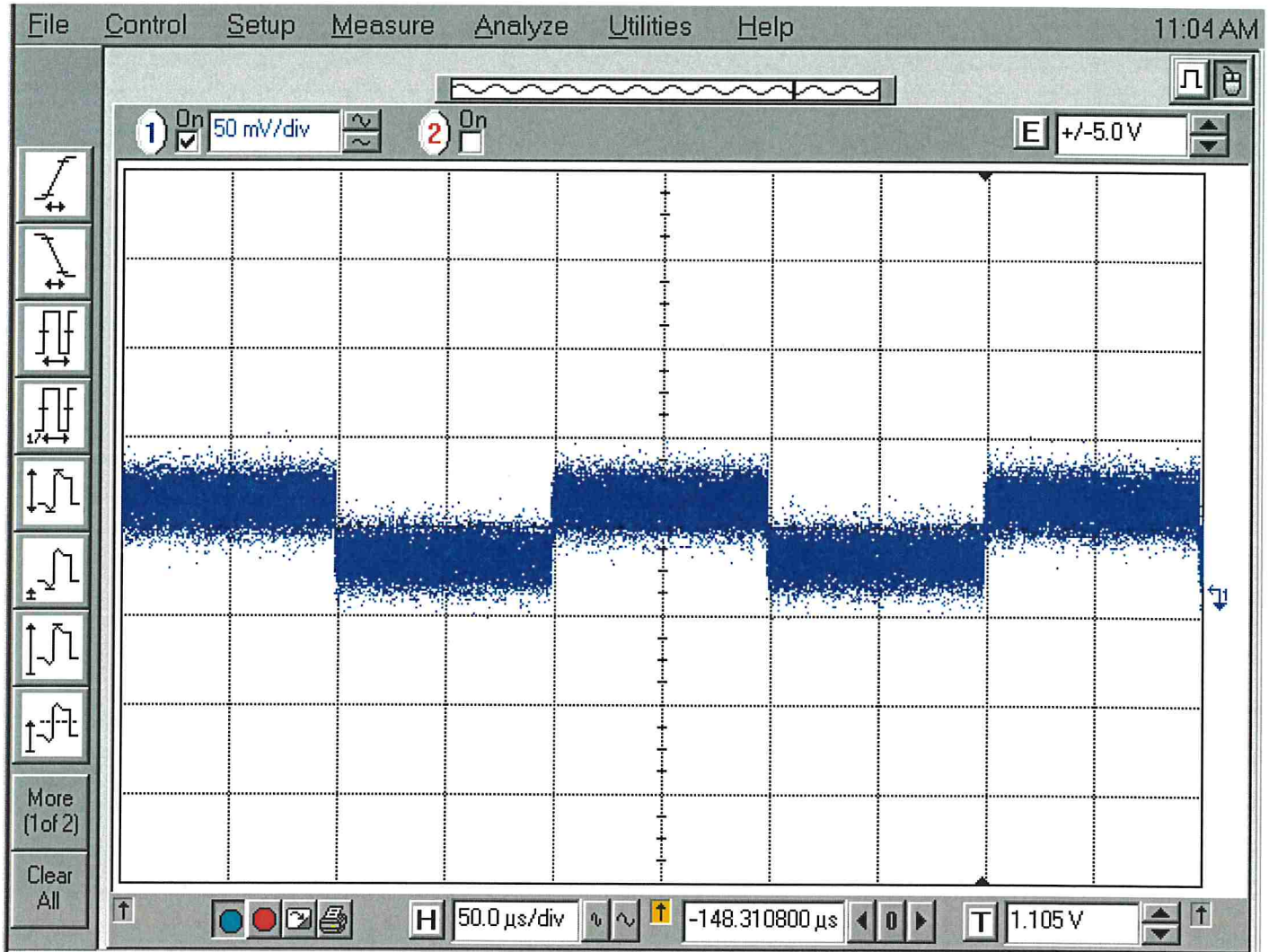




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TSS @ -69.5 dBm

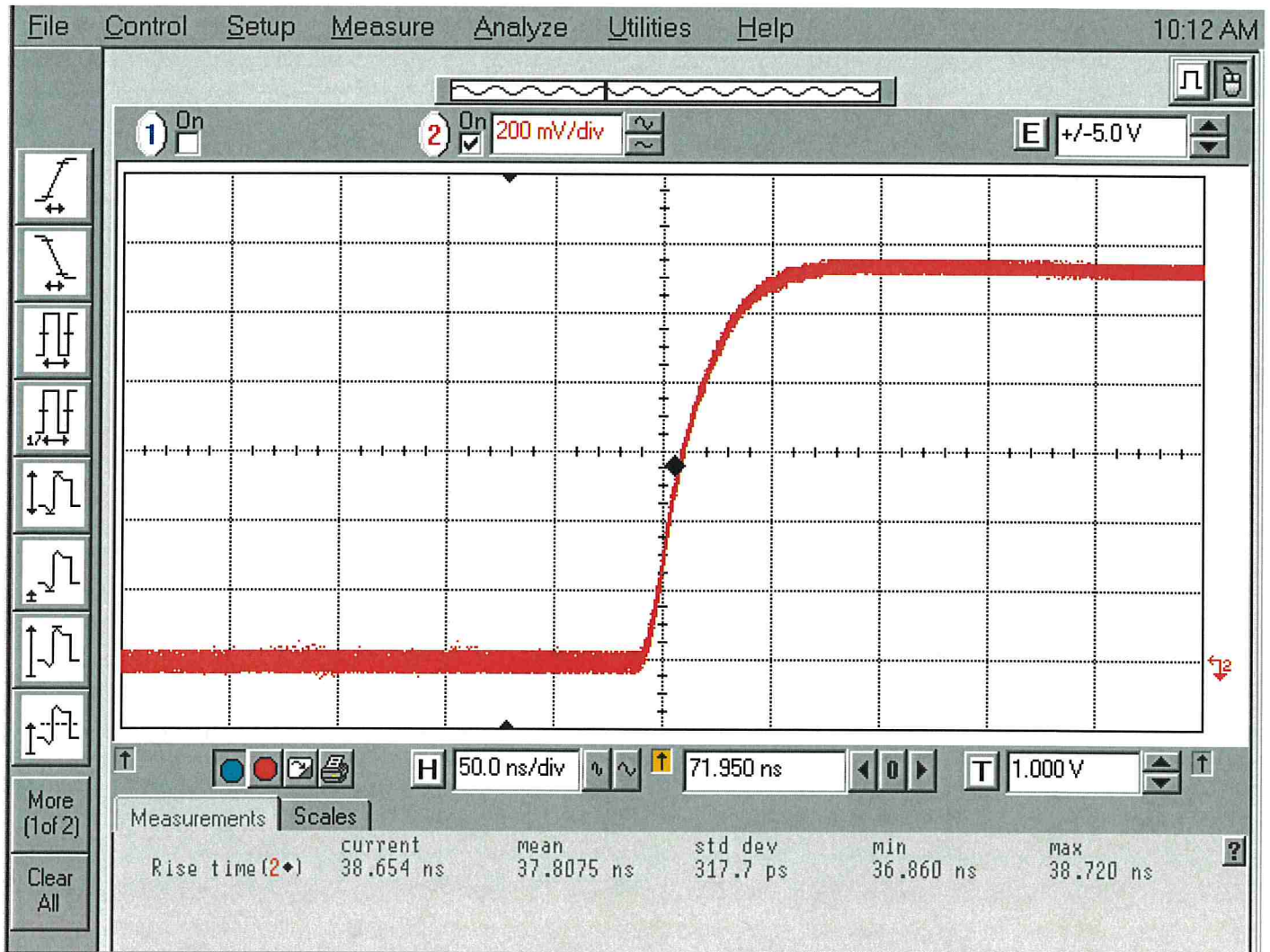




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RISE TIME





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RECOVERY TIME

