



**SUMMARY TEST DATA
ON
SDLVA-100M6G-CD-2**

PL32729/2145

| | |
|------------------------------------|-----------------------------|
| Customer: _____ | Tested By: <u>JOHNM</u> |
| SO No: _____ | Temperature: <u>25°C</u> |
| Model No: <u>SDLVA-100M6G-CD-2</u> | Date: <u>11/11/21</u> |
| Serial No: <u>PL32729/2145</u> | Drawing No: <u>27641180</u> |

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC PMI QA3 |
|---------------|--------------------------------|--------------------------------------|-------------------------------------|---------------------|
| 1 | Frequency Range: | 100 MHz to 6 GHz | 100 MHz to 6 GHz | |
| 2 | RF Gain (Small Signal): | 55 dB Typ. (J1 to J2) @-50dBm | 59 dB | |
| 3 | Video Flatness over Frequency: | ± 50 mV Max | ± 55 mV See Plot #1 | |
| 4 | TSS: | -73 dBm Typ., -71 dBm Max (25°C) | -72 dBm See Plot #2 | |
| 5 | VSWR: | 2.0:1 (J1 VSWR) | 1.84:1 See Plot #3 | |
| 6 | PSAT: | +13 dBm Typ. (J2) | +14.75 dBm See Plot #4 | |
| 7 | Power Input: | +17 dBm CW Max (J1) | Pass | |
| 8 | Log Slope: | 25 mV/dB Typ. (J3) (50Ω Load) @ 25°C | 27.8 mV/dB Avg. See Plots #1 | |
| 9 | Log Range: | -70 to 0 dBm | -70 TO 0 dBm | |
| 10 | Log Linearity | ±2.5 dB (J3) @ 25°C | ± 2.89 dB See Plot #1 | |
| 11 | DC Offset: | 50 ± 50 mV (J3) | 57 mV | |
| 12 | Pulse Range: | 100 ns to CW | 100 ns | |
| 13 | Rise Time: | 30 ns (Max) | 10 ns | |
| 14 | Recovery Time: | 200 ns (Max) | 400 ns | |
| 15 | Harmonics: | 15 dBc Min -70 to 0 dBm | -20 dBc | |
| 16 | DC Supply: | +15 VDC @ 350 mA -15V DC @ 180 mA | +15 VDC @ 260 mA -15 VDC @ 90 mA | |

QA/QC Approval: *Key...* Date: 11-16-21



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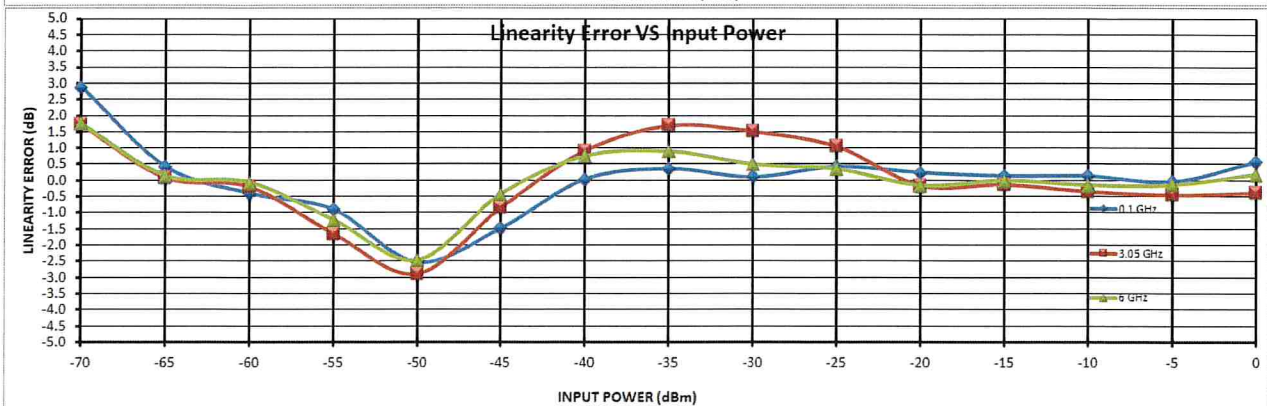
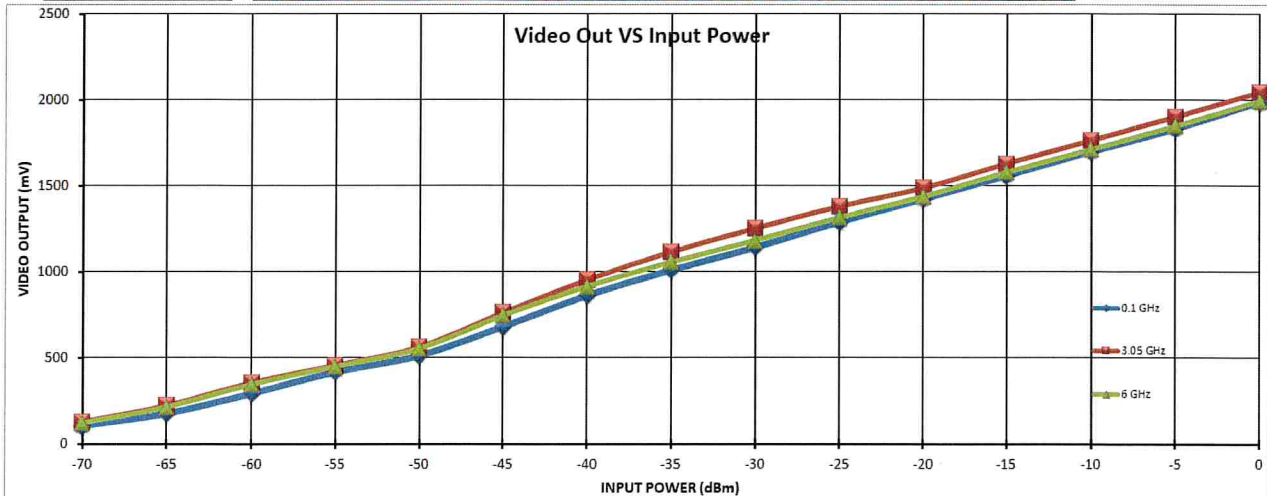
MODEL: SDLVA-100M6G-CD-2
SERIAL NO: PL32729
DATE: 8-9-21
TESTED BY: JOHNM
Test Temp: +25°C

LOG SLOPE / LINEARITY PLOT #1



PLANAR MONOLITHICS INDUSTRIES
4621 Robert J. Mathews Parkway Suite 1
El Dorado Hills, CA 95762
Phone 916-542-1401 Fax 301-662-1731
WEB: WWW.PMI-RF.COM

| Frequency | | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | RF Input Power (dBm) |
|------------------------|----------------|------|------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|----------------------|
| 0.1 GHz | INTERCEPT (mV) | 109 | 180 | 296 | 421 | 515 | 683 | 864 | 1012 | 1144 | 1292 | 1426 | 1562 | 1701 | 1835 | 1991 | Measured Value (mV) |
| | SLOPE (mV/dB) | 80 | 12 | -11 | -25 | -70 | -41 | 1 | 10 | 3 | 12 | 7 | 4 | 4 | -1 | 16 | Error (mV) |
| | | 2.88 | 0.43 | -0.40 | -0.90 | -2.52 | -1.48 | 0.03 | 0.36 | 0.10 | 0.43 | 0.25 | 0.14 | 0.14 | -0.04 | 0.57 | 2.88 |
| 3.05 GHz | INTERCEPT (mV) | 131 | 226 | 359 | 459 | 665 | 764 | 955 | 1118 | 1254 | 1382 | 1489 | 1631 | 1766 | 1904 | 2047 | Measured Value (mV) |
| | SLOPE (mV/dB) | 49 | 3 | -5 | -47 | -82 | -24 | 26 | 48 | 43 | 30 | -4 | -3 | -10 | -13 | -11 | Error (mV) |
| | | 1.73 | 0.09 | -0.19 | -1.65 | -2.89 | -0.84 | 0.93 | 1.70 | 1.52 | 1.06 | -0.15 | -0.12 | -0.34 | -0.45 | -0.38 | 2.89 |
| 6 GHz | INTERCEPT (mV) | 122 | 215 | 346 | 451 | 554 | 747 | 916 | 1057 | 1183 | 1316 | 1439 | 1580 | 1713 | 1850 | 1996 | Measured Value (mV) |
| | SLOPE (mV/dB) | 48 | 4 | -2 | -34 | -68 | -11 | 21 | 25 | 14 | 10 | -4 | 0 | -4 | -4 | 5 | Error (mV) |
| | | 1.76 | 0.15 | -0.06 | -1.23 | -2.47 | -0.42 | 0.75 | 0.90 | 0.50 | 0.36 | -0.15 | 0.00 | -0.14 | -0.14 | 0.19 | 2.47 |
| Avg. Slope: 27.8 mV/dB | | 0.4 | 0.8 | 1.1 | 0.7 | 0.9 | 1.4 | 1.6 | 1.9 | 1.9 | 1.6 | 1.1 | 1.2 | 1.2 | 1.2 | 1 | |
| Flatness dB: ±1.9 dB | | | | | | | | | | | | | | | | | |

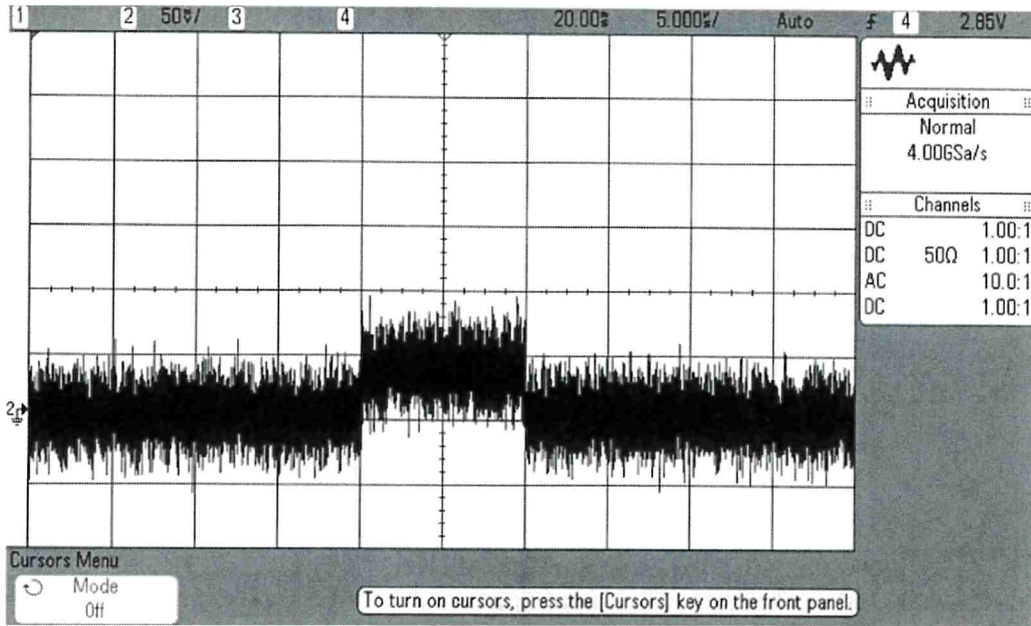




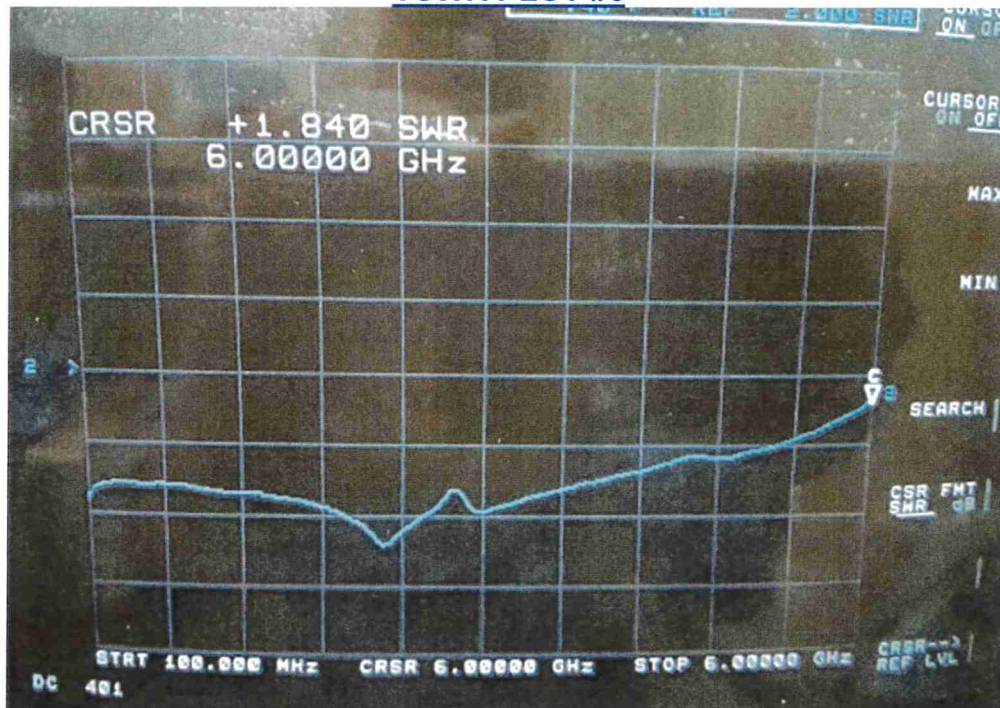
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TSS PLOT #2



VSWR PLOT #3





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PSAT PLOT #4

