



**SUMMARY TEST DATA
ON
ERDLVA-218-DC-LPD**

Customer: _____ Tested By: Jim Hopson
 SO No: _____ Temperature: +25°C
 Model No: ERDLVA-218-DC-LPD Date: 05/28/21
 Serial No: PL32488/2121 Drawing No: 27622822 Rev: A1

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC PMI QA3 |
|---------------|-----------------------|--|---|---------------------|
| 1 | Frequency Range: | 2 GHz – 18 GHz | 2 GHz – 18 GHz | |
| 2 | Flatness: | ± 1.5 dB Max. | ±1.1 dB See Plots | |
| 3 | Log Linearity | ± 0.5 dB TYP. ±1.0 dB MAX | ±.59/- .86 dB See Plots | |
| 4 | Logging Range: | -60 to +4 dBm | -60 to +4 dBm | |
| 5 | Log Slope | +85mV/dB | 84 mV/dB & See Plot | |
| 6 | INPUT VSWR: | 3.0:1 Max. | 2.1:1 | |
| 7 | TSS: | -64 dBm MAX. | -64 dBm | |
| 8 | Pulse Width Range: | 50 nsec to CW. | 50 nsec to CW. | |
| 9 | Video Rise Time: | 20 nsec Max. | 20 nsec | |
| 10 | Video Load Impedance: | 75 ohms | 75 ohms | |
| 11 | Recovery Time: | 500 nsec Max. | 480 nsec | |
| 12 | Output Stability: | ±1.0 dB | ±.5 dB | |
| 13 | DC Supply Power: | +15VDC / 190 mA MAX -15VDC / 100 mA MAX | + 15 Volts @190 mA - 15 Volts @80 mA | PMI QA3 |

QA/QC Approval: *A. Zimmerman* Date: 5-28-21



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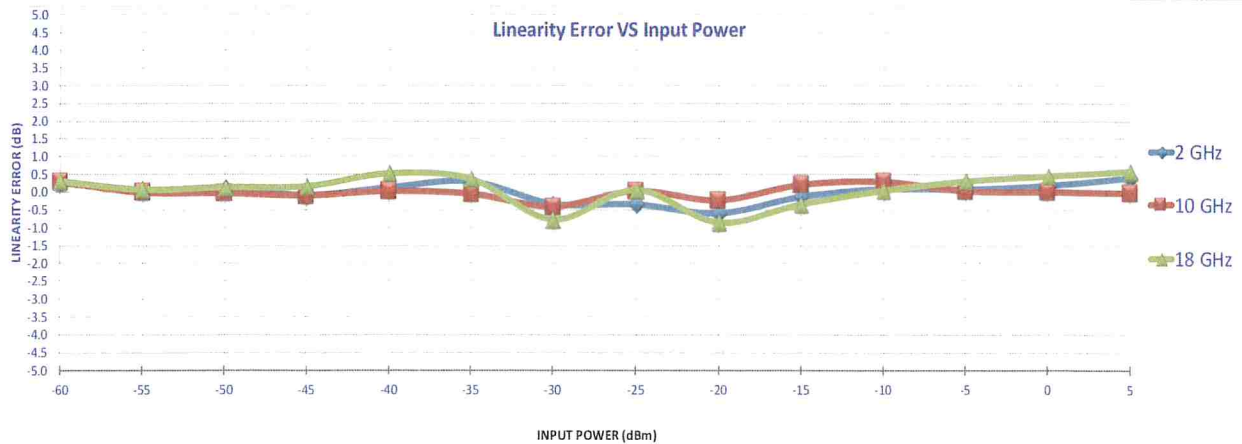
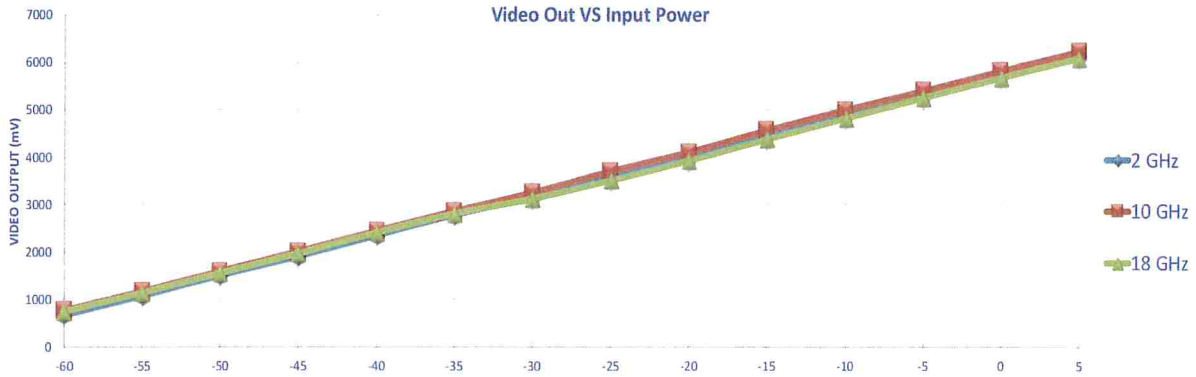
LOG TRANSFER WITH FREQUENCY
 MODEL: ERDLVA-218-DC-LPD
 TESTED BY: Jim Hopson
 TEST DATE: 5-28-21
 SERIAL NO: PL532488
 TEST TEMP: +25C



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Frequency

| | | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) |
|----------------|----------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|------|------|-------|----------------------|
| 2 GHz | INTERCEPT (mV) | 663 | | | | | | | | | | | | | | Measured Value (mV) |
| | SLOPE (mV/dB) | 84.2 | | | | | | | | | | | | | | Error (mV) |
| | | 0.26 | 0.04 | 0.11 | -0.09 | 0.12 | 0.29 | -0.34 | -0.35 | -0.60 | -0.14 | 0.08 | 0.07 | 0.17 | 0.39 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 764 | | | | | | | | | | | | | | Measured Value (mV) |
| | SLOPE (mV/dB) | 84.5 | | | | | | | | | | | | | | Error (mV) |
| | | 0.29 | -0.01 | -0.03 | -0.10 | 0.03 | -0.05 | -0.41 | 0.03 | -0.24 | 0.21 | 0.29 | 0.03 | 0.00 | -0.03 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 758 | | | | | | | | | | | | | | Measured Value (mV) |
| | SLOPE (mV/dB) | 81.7 | | | | | | | | | | | | | | Error (mV) |
| | | 0.31 | 0.07 | 0.14 | 0.18 | 0.52 | 0.37 | -0.77 | 0.06 | -0.86 | -0.35 | 0.04 | 0.30 | 0.45 | 0.59 | LINEARITY ERROR (dB) |
| Flatness +/-dB | | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.4 | 0.7 | 1.1 | 1 | 1.1 | 1 | 0.8 | 0.8 | 0.8 | |



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