



**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: PL32492/2121 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.	± 1.0 dB See Plots	
3	Log Linearity	± 0.5 dB TYP. ±1.0 dB MAX	± .64/- .58dB See Plots	
4	Logging Range:	-60 to +4 dBm	-60 to +4 dBm	
5	Log Slope	+85mV/dB	84.2 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	

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: PL32492  
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)	387 812 1234 1654 2101 2550 2905 3350 3780 4240 4670 5050 5440 5890														Measured Value (mV)
	SLOPE (mV/dB)	-7 -6 -7 -11 13 38 -31 -9 -3 34 40 -4 -37 -11														Error (mV)
		-0.08 -0.07 -0.09 -0.13 0.15 0.45 -0.36 -0.11 -0.03 0.40 0.47 -0.04 -0.44 -0.13														LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	480 888 1329 1746 2175 2625 3030 3530 3950 4400 4810 5170 5580 6020														Measured Value (mV)
	SLOPE (mV/dB)	3 -18 -7 -19 -19 2 -22 49 40 61 41 -28 -47 -36														Error (mV)
		0.03 -0.22 -0.08 -0.22 -0.22 0.02 -0.26 0.57 0.46 0.71 0.48 -0.32 -0.55 -0.42														LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	543 946 1376 1799 2237 2652 2976 3370 3780 4220 4660 5050 5470 5910														Measured Value (mV)
	SLOPE (mV/dB)	-9 -15 5 19 47 53 -33 5 -48 -17 13 -6 4 35														Error (mV)
		-0.11 -0.19 0.06 0.23 0.58 0.64 -0.40 0.06 -0.58 -0.21 0.16 -0.08 0.05 0.42														LINEARITY ERROR (dB)
Flatness +/-dB		0.9 0.8 0.8 0.8 0.8 0.6 0.7 1 1 1 0.9 0.7 0.8 0.8														

