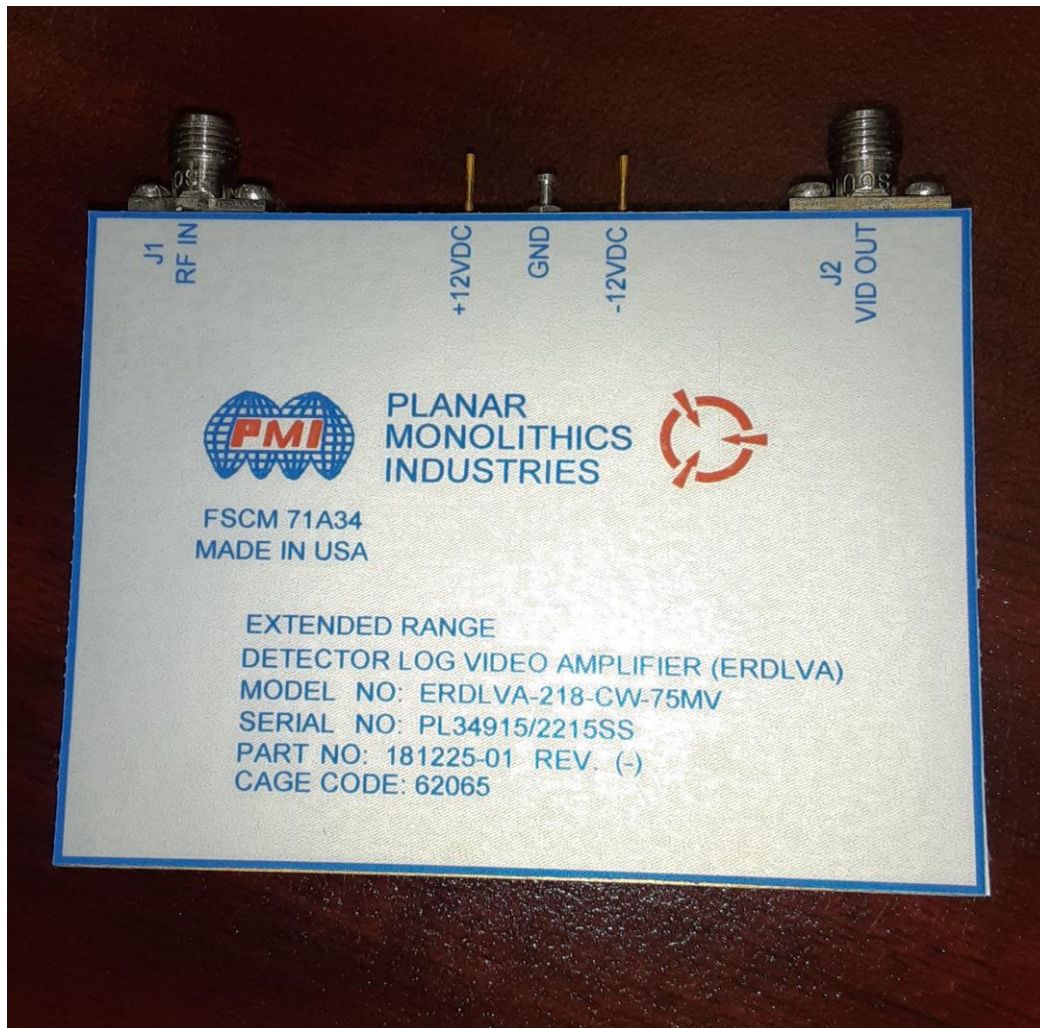




**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

**PMI MODEL ERDLVA-218-CW-75MV IS A CW IMMUNE EXTENDED RANGE
DETECTOR LOG VIDEO AMPLIFIER (ERDLVA) THAT OPERATES BETWEEN THE
2-18 GHZ FREQUENCY RANGE WITH A LOG SLOPE OF 75MV / DB AND A RISE
TIME OF 25 NS**



APRIL 5th, 2020

**Tested By: John Merriner
Designed by: John Merriner**

PLANAR MONOLITHICS INDUSTRIES, INC.
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SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

DESCRIPTION

THE MODEL ERDLVA-218-CW-75MV IS A CW IMMUNE EXTENDED RANGE DETECTOR LOG VIDEO AMPLIFIER (ERDLVA) THAT OPERATES BETWEEN THE 2 TO 18 GHz FREQUENCY RANGE WITH A LOG SLOPE OF 75 m / dB AND RISE TIME OF 25 ns.

SPECIFICATIONS

- FREQUENCY RANGE:----- 2.0 TO 18.0 GHz
- TSS:----- -42 dBm (8.5 dBV SNR)
- FREQUENCY FLATNESS:----- ±1.5 dB MAX AT-20 dBm
- MONOTONIC DYNAMIC RANGE:----- ±75mv -40 dBm TO + 20 dBm
- LOGGING RANGE:----- -40 dBm TO + 20 dBm MIN
- LOG SLOPE:----- 75 ±10mV MAX per dB
- LOG SLOPE LINEARITY:----- -40 TO +20 dBm ±1.00 dB MAX @25°C, ± 1.5dB MAX OVER TEMPERATURE
- THROUGHPUT DELAY TIME:----- 30 ns MAX 10% RF TO 10% VIDEO
- VIDEO BANDWIDTH:----- 20 MHz OVER 60 dB LOGGING RANGE
- RISE TIME AND RECOVERY TIME:----- RISE TIME 25 ns MAX RECOVERY TIME 500 ns
- OVERSHOOT:----- 1 dB DURING FIRST 50 ns
- SETTling TIME:----- ±0.5 dB WITHIN 25 ns FROM 90%
- PULSE DROOP:----- 1 dB ON PULSES UP TO 250 us
- TRAILING EDGE MONOTONICITY:----- ± 2 dB OVER FULL LOGGING RANGE
- DUTY CYCLE (0.05 us TO 250 us PW):-- 0 - 70%
- NEGATIVE GOING OUTPUT:----- CLAMPED AT -0.70 V
- PULSE WIDTH:----- WITHIN 10 ns OF RF PULSE WIDTH @ -5 dB FROM PEAK
- VIDEO OUTPUT LEVEL AVERAGE@-40 dBm OVER FREQUENCY:----- 300 ±50 mV @25°C
- LOG VIDEO OUTPUT VOLTAGE RANGE:----- 300 mV TO 4800 mV NOMINAL, 0 TO 5090 mV MAX
- VIDEO LOAD:----- 66ft. RG71B CABLE TERMINATED IN 93 OHMS
- OUT-OF-BAND PERFORMANCE (1.8 GHz TO 18.3 GHz):----- WITHIN 1.0 dB OF IN-BAND PERFORMANCE
- BASELINE DC OFFSET:----- 0 TO 125 mV MAX
- BASELINE NOISE:----- 62 mV TO 102 mV RMS MAX
- LOAD STABILITY:----- NO OSCILLATIONS 50 OHM LOAD AND CABLE

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/22/2015	JM
	A1	RELEASE	7/20/2021	JM
	B1	ECN# 22-0021	2/16/2022	JM

SPECIFICATIONS

- CW RECOVERY CIRCUIT PERFORMANCE:----- CW IMMUNITY RANGE -50 dBm TO -10 dBm.
CW ATTACK TIME 1500 us MAX
RELEASE TIME 250 us MAX
SHALL NOT ACT ON NOISE LESS THAN 250 us.
- INPUT IMPEDANCE:----- 50 ohms NOM
- INPUT VSWR:----- LESS THAN 2.5:1 MAX UP TO -20dBm INPUT AND LESS THAN 3.0:1 MAX UP TO +15 dBm INPUT
- INPUT POWER HANDLING:----- CW RF INPUT LEVELS OF +23 dBm MIN
- VOLTAGES AND CURRENT (NO SIGNAL):----- +12.0V +5% MAX UNREGULATED
0.25 amp MAX
-12.0V +5% MAX UNREGULATED 0.25 amp MAX
- NOISE:----- 200mV P-P SWITCHING POWER SUPPLY NOISE, 20 TO 100 KHz SWITCHING RATE WITH 1 TO 20 MHz FUNDAMENTAL SWITCHING FREQUENCIES AND RESULTING HARMONICS.
- RIPPLE:----- POWER SUPPLY RIPPLE OF ±1 % FROM DC TO 1 MHz ON ALL POWER LINES.
- SUPPLY VOLTAGE FOLD BACK:----- NO DAMAGE
- LEAKAGE LEVELS:----- <-60 dBm
- WARM-UP TIME:----- 10 SECONDS

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
JM		9-22-15		PRODUCT FEATURE ERDLVA-218-CW-75MV			
CHECKED		SIZE	PSOM NO.	DWG NO.		REV	
		A	71A34	27042440		B1	
ISSUED		SCALE	N:S		SHEET	1 OF 2	

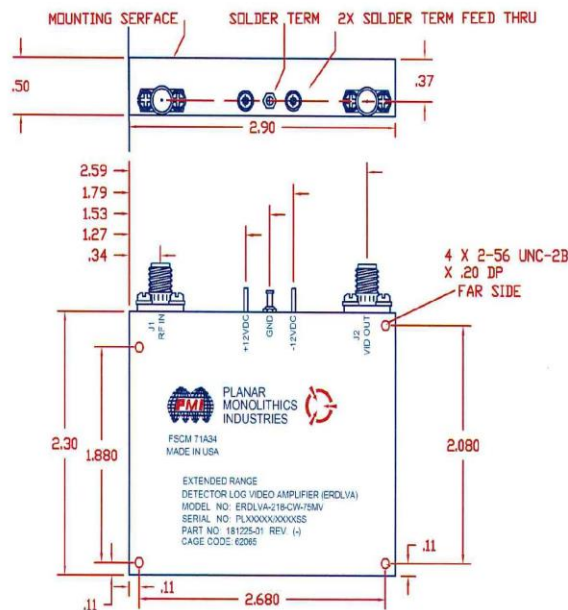


SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

DESCRIPTION

THE MODEL ERDLVA-218-CW-75MV IS A CW IMMUNE EXTENDED RANGE DETECTOR LOG VIDEO AMPLIFIER (ERDLVA) THAT OPERATES BETWEEN THE 2 TO 18 GHz FREQUENCY RANGE WITH A LOG SLOPE OF 75 m / dB AND RISE TIME OF 25 ns.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9-22-15	JM
	A1	RELEASE	7/20/2021	JM
	B1	ECN# 22-0021	2/15/2022	JM



ENVIRONMENTAL RATINGS

- TEMPERATURE: -25 °C TO +85 °C (OPERATING)
-40 °C TO +85 °C (STORAGE)
- HUMIDITY: TO 100% +30 °C TO +55°C WITH CONDENSATION, 240 HR EXPOSURE
- FUNGUS: NO FUNGUS NUTRIENT MATERIALS, PCB'S TO BE HUMISEALED
- VIBRATION: 0.2"(DOUBLE AMPLITUDE) 5-14 Hz, 2.0 G 14 TO 33 Hz, 0.036"(DOUBLE AMPLITUDE) 33 TO 52 Hz, 5.0 G 52 TO 500 Hz
- ALTITUDE: NON-OPERATING: SEA LEVEL TO 40,000 FEET ASL. OPERATING: SEA LEVEL TO 20,000 FEET ASL
- RANDOM VIBRATION: 0.04 g² / Hz FROM 60 TO 35 Hz, DECREASING @ 3 dB / OCTAVE FROM 60 TO 20 Hz AND 350 Hz TO 2 kHz, 6 GRAMS TOTAL
- FUNCTIONAL SHOCK: 40 G (6 SHOCKS PER AXIS, 6 TO 9 ms DURATION)

NOTE: SPECIFICATIONS MAY VARY OVER OPERATING TEMPERATURE.
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE	TITLE		
DRAWN: JM		9-22-15	PRODUCT FEATURE ERDLVA-218-CW-75MV		
CHECKED:			SIZE: A	FSCM NO: 71A34	DIVG NO: 27042440
ISSUED:					REV: B1
			SCALE: N:S	SHEET: 2 OF 2	

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**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

Summary Test Data

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz	
2	VSWR:	2.5:1 MAX @ -20 dBm	1.31:1 MAX	
3	Input Power:	23 dBm Max.	Pass	
4	VIDEO OUT TSS:	-42 dBm MAX	-42.5dBm	
5	VIDEO OUT Dynamic Range:	-40 to +20 dBm	-40 to +20 dBm	
6	VIDEO OUT Log Slope Fixed:	75 ± 10mV/dB	74.6-76.6mV/dB	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C ±1.5 dB MAX @ Over Temperature	See attached Graphs	
8	VIDEO OUT DC Offset:	0 to 125 mV @25C	0mV	
9	VIDEO OUT Rise Time (10% to 90%):	25 ns MAX	22ns	
10	VIDEO OUT Settling Time:	±0.5dB within 25ns from 90%	<0.5dB	
11	VIDEO OUT Recovery Time:	500ns MAX	220ns	
12	VIDEO OUT Video Frequency Flatness:	3.0 dB p-p MAX @ -20dBm	2.4dB p-p MAX @ -20dBm	

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**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

13	VIDEO OUT CW Immunity:	CW Immune Power -50 to -10 dBm	Pass	
		CW Attack Time 1500us	1500us	
		CW Release Time 250us	30us	
17	Pulse droop	1dB Max for 250us pulses	<1dB	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
19	VIDEO LOAD Impedance:	93 ±1 Ω	93Ω	
21	VIDEO OUT Noise Level (RMS):	102 mV max	50mV	
22	VIDEO OUT Propagation Delay:	35 ns MAX from RF 10% to 10% video (excluding cable)	30ns	
23	Power Supply	+12 V @ 250 mA MAX -12 V @ 250 mA MAX	+12 V @ 150 mA -12 V @ 60 mA	



SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

Log Linearity Data @ 25°C

LOG TRANSFER WITH FREQUENCY
 MODEL: ERDLVA-218-CW-75MV
 TESTED BY: J.Merriner
 DATE: 12-6-21
 SERIAL NO: PL34915
 Test Temp: +25C



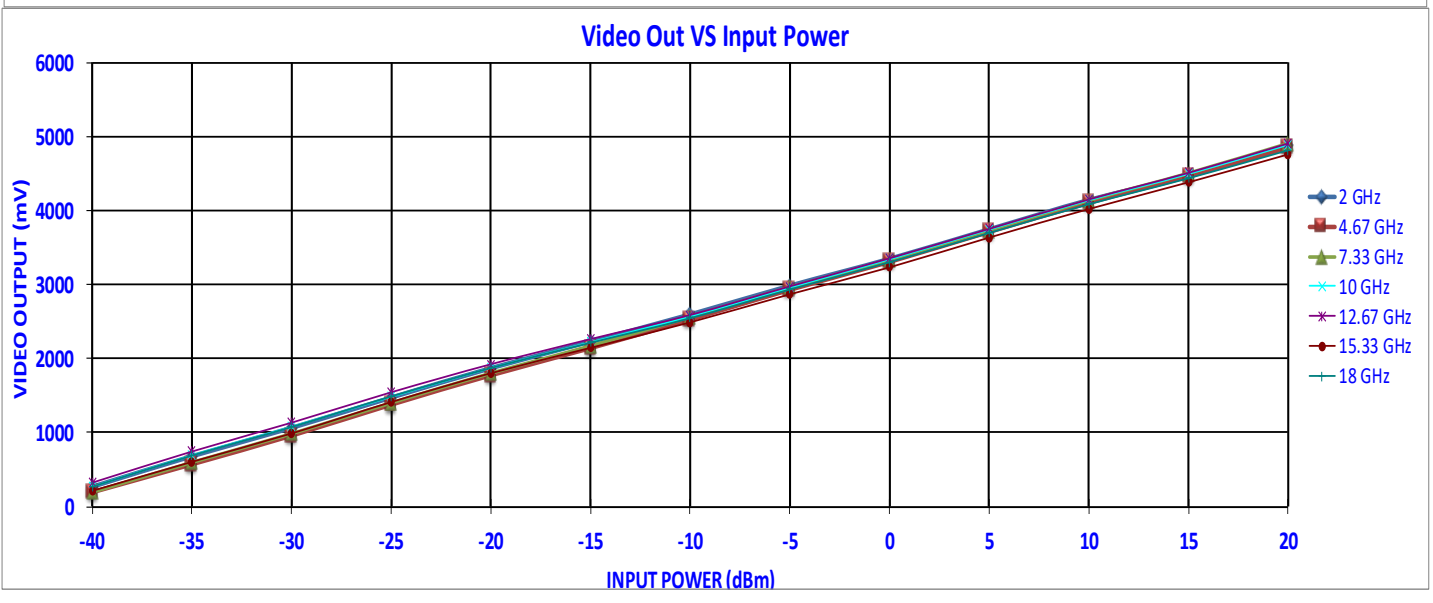
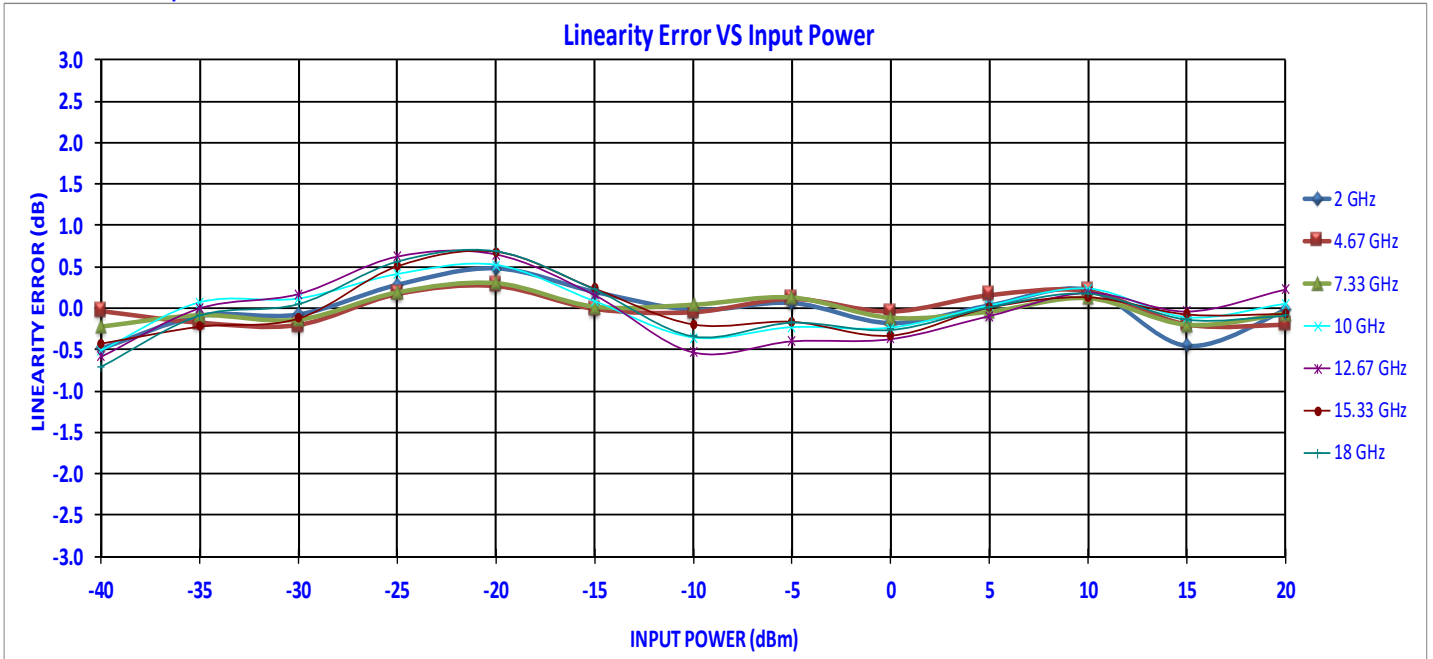
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 Phone: 916-542-1401 Fax: 301-662-

Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	260	672	1055	1464	1861	2221	2586	2974	3337	3735	4131	4461	4876	Measured Value (mV)
	SLOPE (mV/dB)	-37	-7	-5	22	37	16	-1	5	-13	3	17	-34	-1	Error (mV)
		-0.49	-0.09	-0.07	0.29	0.49	0.20	-0.02	0.07	-0.18	0.04	0.23	-0.45	-0.01	LINEARITY ERROR (dB)
		X													
4.67 GHz	INTERCEPT (mV)	187	566	954	1374	1772	2140	2527	2930	3308	3714	4108	4466	4856	Measured Value (mV)
	SLOPE (mV/dB)	-3	-14	-16	14	21	-1	-4	9	-3	13	16	-16	-16	Error (mV)
		-0.04	-0.18	-0.21	0.17	0.27	-0.01	-0.05	0.11	-0.04	0.16	0.21	-0.20	-0.20	LINEARITY ERROR (dB)
		X													
7.33 GHz	INTERCEPT (mV)	195	597	984	1401	1801	2170	2563	2961	3333	3730	4134	4500	4902	Measured Value (mV)
	SLOPE (mV/dB)	-17	-6	-10	15	24	2	4	10	-9	-3	10	-15	-5	Error (mV)
		-0.22	-0.08	-0.13	0.20	0.31	0.02	0.05	0.13	-0.11	-0.04	0.13	-0.20	-0.06	LINEARITY ERROR (dB)
		X													
10 GHz	INTERCEPT (mV)	272	698	1083	1487	1877	2225	2573	2964	3345	3747	4144	4499	4893	Measured Value (mV)
	SLOPE (mV/dB)	-40	5	8	31	39	6	-28	-18	-19	2	18	-9	4	Error (mV)
		-0.52	0.06	0.11	0.41	0.52	0.08	-0.36	-0.24	-0.24	0.03	0.23	-0.12	0.05	LINEARITY ERROR (dB)
		X													
12.67 GHz	INTERCEPT (mV)	319	740	1130	1541	1920	2260	2585	2972	3351	3749	4147	4507	4904	Measured Value (mV)
	SLOPE (mV/dB)	-44	0	13	47	49	12	-40	-30	-28	-7	14	-3	17	Error (mV)
		-0.58	0.00	0.17	0.62	0.65	0.16	-0.53	-0.40	-0.37	-0.09	0.19	-0.04	0.23	LINEARITY ERROR (dB)
		X													
15.33 GHz	INTERCEPT (mV)	206	599	984	1409	1800	2144	2489	2869	3234	3637	4024	4386	4764	Measured Value (mV)
	SLOPE (mV/dB)	-32	-17	-9	38	52	18	-14	-12	-25	1	10	-5	-5	Error (mV)
		-0.42	-0.22	-0.12	0.51	0.68	0.24	-0.19	-0.16	-0.33	0.01	0.14	-0.07	-0.07	LINEARITY ERROR (dB)
		X													
18 GHz	INTERCEPT (mV)	275	696	1081	1494	1878	2218	2550	2937	3305	3700	4087	4438	4816	Measured Value (mV)
	SLOPE (mV/dB)	-53	-6	4	43	52	18	-25	-13	-19	1	14	-10	-6	Error (mV)
		-0.70	-0.08	0.06	0.57	0.70	0.23	-0.33	-0.17	-0.26	0.02	0.18	-0.13	-0.09	LINEARITY ERROR (dB)
		X													
Flatness P-P		1.8	2.2	2.4	2.2	2.0	1.6	1.2	1.4	1.6	1.4	1.6	1.6	1.8	
Slope Avg(mv/dB)		76.4													



SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-218-CW-75MV
SERIAL NO: PL34915
Test Temp: +25C



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SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

Log Linearity Data @ -28°C

LOG TRANSFER WITH FREQUENCY

MODEL: ERDLVA-218-CW-75MV

TESTED BY: J.Merriner

DATE: 12-6-21

SERIAL NO: PL34915

Test Temp: -28C



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Page #1

Frequency

-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20
-----	-----	-----	-----	-----	-----	-----	----	---	---	----	----	----

RF Input Power (dBm)

2 GHz	INTERCEPT (mV)	3460
	SLOPE (mV/dB)	77.2

334	763	1152	1530	1940	2322	2681	3069	3453	3868	4264	4588	4982
-38	5	8	0	24	20	-7	-5	-7	22	32	-30	-22
-0.50	0.06	0.10	0.00	0.31	0.26	-0.09	-0.07	-0.09	0.28	0.41	-0.39	-0.29

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

4.67 GHz	INTERCEPT (mV)	3421
	SLOPE (mV/dB)	78.8

260	666	1055	1449	1854	2244	2626	3021	3418	3844	4241	4589	4964
-10	2	-3	-3	8	5	-7	-6	-3	29	33	-13	-32
-0.13	0.02	-0.04	-0.03	0.11	0.06	-0.09	-0.08	-0.04	0.37	0.41	-0.17	-0.41

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

7.33 GHz	INTERCEPT (mV)	3467
	SLOPE (mV/dB)	78.6

299	727	1115	1500	1909	2298	2675	3065	3459	3873	4277	4634	5020
-25	10	5	-2	14	10	-6	-9	-8	14	25	-11	-18
-0.32	0.13	0.07	-0.03	0.18	0.13	-0.07	-0.11	-0.10	0.17	0.32	-0.14	-0.23

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

10 GHz	INTERCEPT (mV)	3496
	SLOPE (mV/dB)	76.3

409	839	1232	1604	1999	2361	2684	3071	3477	3897	4292	4640	5020
-34	14	26	16	30	10	-49	-43	-19	19	33	-1	-2
-0.44	0.19	0.34	0.21	0.39	0.13	-0.64	-0.57	-0.25	0.25	0.43	-0.01	-0.03

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

12.67 GHz	INTERCEPT (mV)	3498
	SLOPE (mV/dB)	75.8

429	856	1251	1636	2022	2376	2685	3070	3474	3889	4285	4638	5018
-39	9	25	32	39	14	-56	-49	-24	12	29	3	5
-0.52	0.12	0.34	0.42	0.51	0.19	-0.74	-0.65	-0.32	0.16	0.39	0.05	0.06

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

15.33 GHz	INTERCEPT (mV)	3375
	SLOPE (mV/dB)	74.8

327	767	1154	1539	1935	2285	2580	2956	3328	3756	4152	4505	4873
-57	9	22	34	56	32	-47	-45	-47	7	29	8	2
-0.76	0.13	0.30	0.45	0.74	0.42	-0.63	-0.61	-0.63	0.09	0.38	0.10	0.02

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

18 GHz	INTERCEPT (mV)	3457
	SLOPE (mV/dB)	74.0

444	873	1266	1647	2025	2366	2653	3037	3425	3838	4230	4572	4938
-52	7	30	41	49	20	-63	-50	-32	11	33	5	1
-0.70	0.10	0.40	0.55	0.66	0.27	-0.86	-0.67	-0.43	0.15	0.45	0.07	0.01

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

Flatness P-P

2.4	2.8	2.8	2.6	2.2	1.8	1.4	1.6	2.0	1.8	1.8	1.8	2.0
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Slope Avg(mv/dB)	76.5
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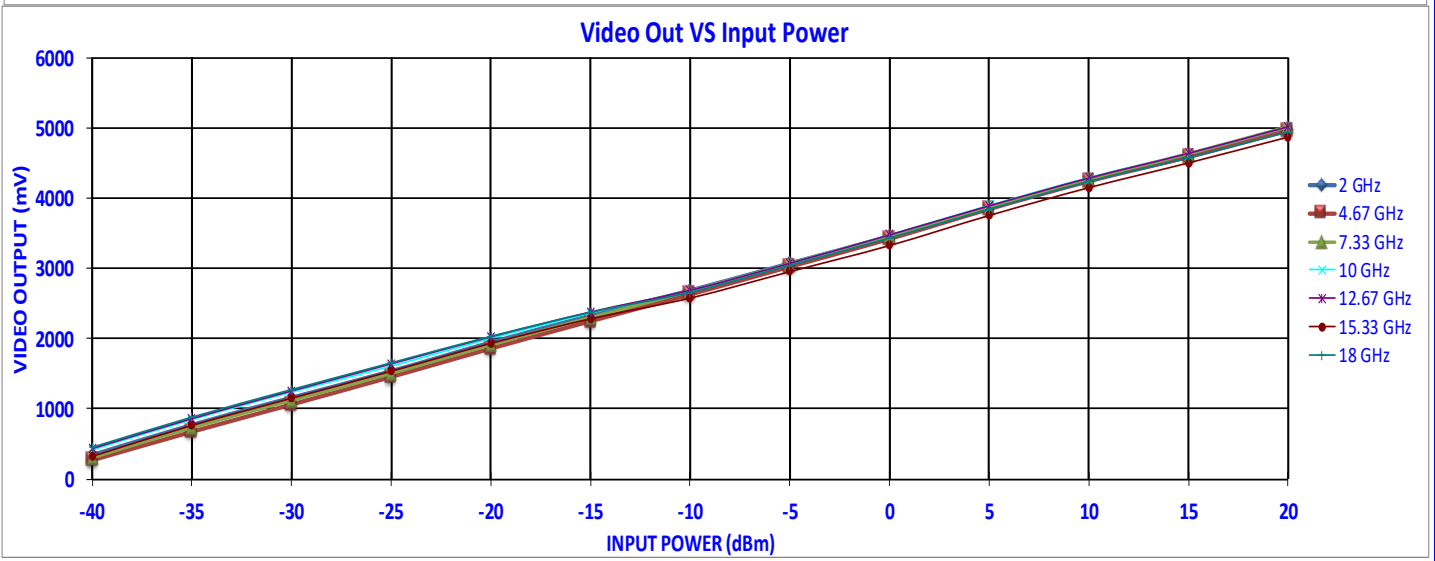
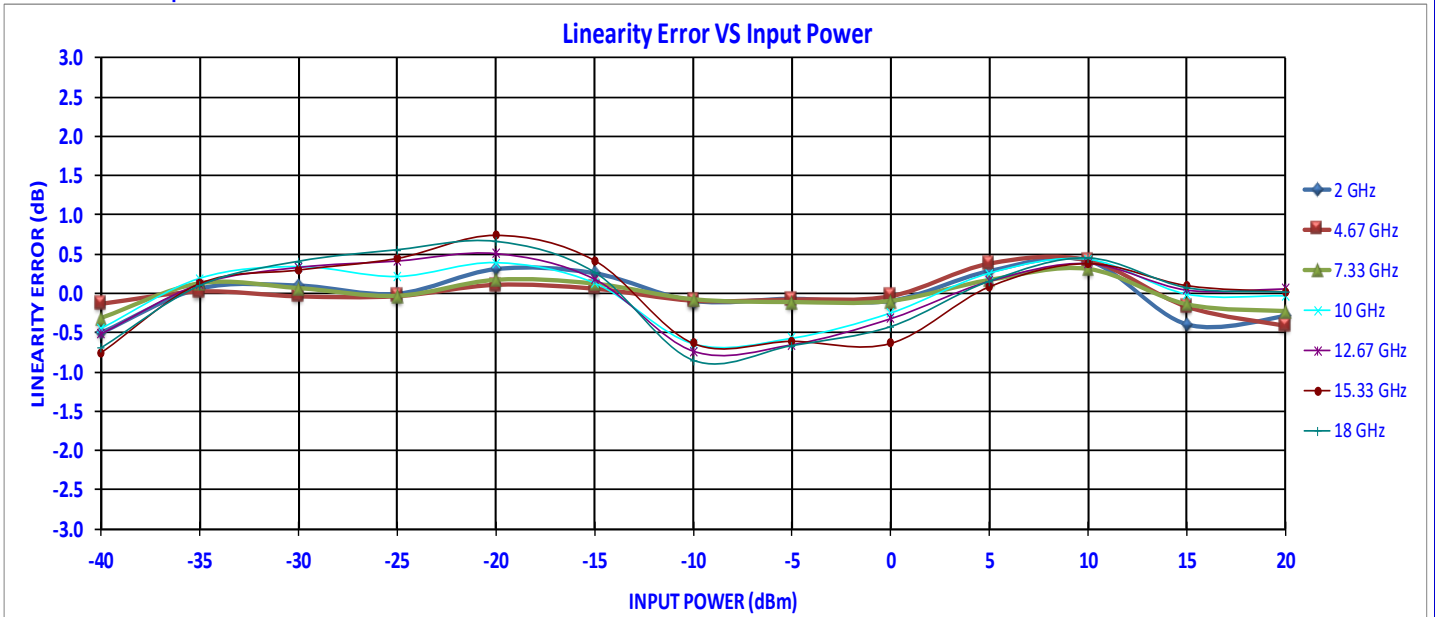
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**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-218-CW-75MV
SERIAL NO: PL34915
Test Temp: -28C



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**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

Log Linearity Data @ +85°C

LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-218-CW-75MV
TESTED BY: J.Merriner
DATE: 12-6-21
SERIAL NO: PL34915
Test Temp: +85C



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Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20
2 GHz	INTERCEPT (mV)	158	534	932	1337	1736	2096	2472	2876	3231	3622	4013	4353	4755
	SLOPE (mV/dB)	-17	-24	-8	14	31	8	2	23	-5	4	12	-30	-11
		-0.22	-0.31	-0.11	0.19	0.40	0.11	0.02	0.30	-0.06	0.05	0.16	-0.39	-0.14
4.67 GHz	INTERCEPT (mV)	101	403	825	1227	1620	2007	2404	2834	3204	3601	3990	4353	4726
	SLOPE (mV/dB)	43	-46	-16	-5	-4	-9	-3	35	13	19	16	-12	-31
		0.56	-0.59	-0.20	-0.07	-0.05	-0.11	-0.04	0.45	0.17	0.24	0.21	-0.16	-0.40
7.33 GHz	INTERCEPT (mV)	101	408	830	1232	1628	2017	2428	2860	3222	3611	4009	4378	4758
	SLOPE (mV/dB)	42	-45	-16	-8	-6	-11	6	44	13	8	12	-13	-27
		0.54	-0.57	-0.21	-0.10	-0.08	-0.14	0.08	0.56	0.16	0.10	0.15	-0.16	-0.34
10 GHz	INTERCEPT (mV)	118	473	880	1286	1681	2048	2439	2855	3221	3614	4005	4363	4735
	SLOPE (mV/dB)	3	-29	-10	9	16	-4	-1	28	6	12	15	-14	-30
		0.04	-0.38	-0.13	0.11	0.21	-0.06	-0.01	0.36	0.08	0.15	0.20	-0.18	-0.38
12.67 GHz	INTERCEPT (mV)	161	559	954	1371	1766	2114	2478	2877	3240	3631	4025	4387	4763
	SLOPE (mV/dB)	-34	-18	-5	30	43	9	-9	8	-11	-2	10	-10	-16
		-0.44	-0.23	-0.06	0.40	0.57	0.12	-0.11	0.11	-0.14	-0.02	0.14	-0.13	-0.21
15.33 GHz	INTERCEPT (mV)	86	349	780	1190	1581	1965	2354	2777	3143	3531	3909	4276	4637
	SLOPE (mV/dB)	55	-69	-25	-1	3	0	2	38	17	18	9	-11	-37
		0.71	-0.89	-0.32	-0.02	0.03	0.00	0.02	0.49	0.22	0.23	0.12	-0.14	-0.47
18 GHz	INTERCEPT (mV)	101	403	823	1235	1626	2005	2401	2828	3190	3576	3953	4308	4667
	SLOPE (mV/dB)	29	-56	-23	2	6	-2	7	48	23	22	12	-20	-48
		0.37	-0.72	-0.30	0.03	0.08	-0.02	0.10	0.61	0.29	0.28	0.15	-0.26	-0.62
Flatness P-P		1.0	2.8	2.2	2.4	2.4	2.0	1.6	1.2	1.2	1.2	1.4	1.4	1.6
Slope Avg(mv/dB)		77.5												

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)

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

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

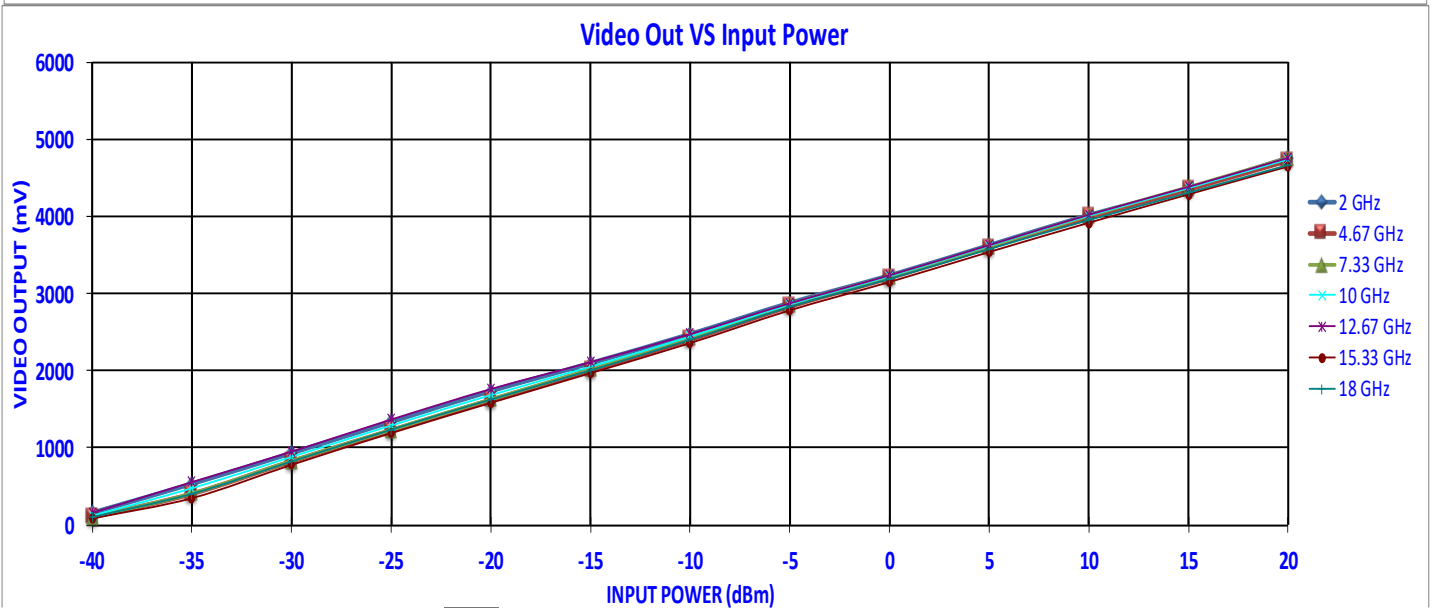
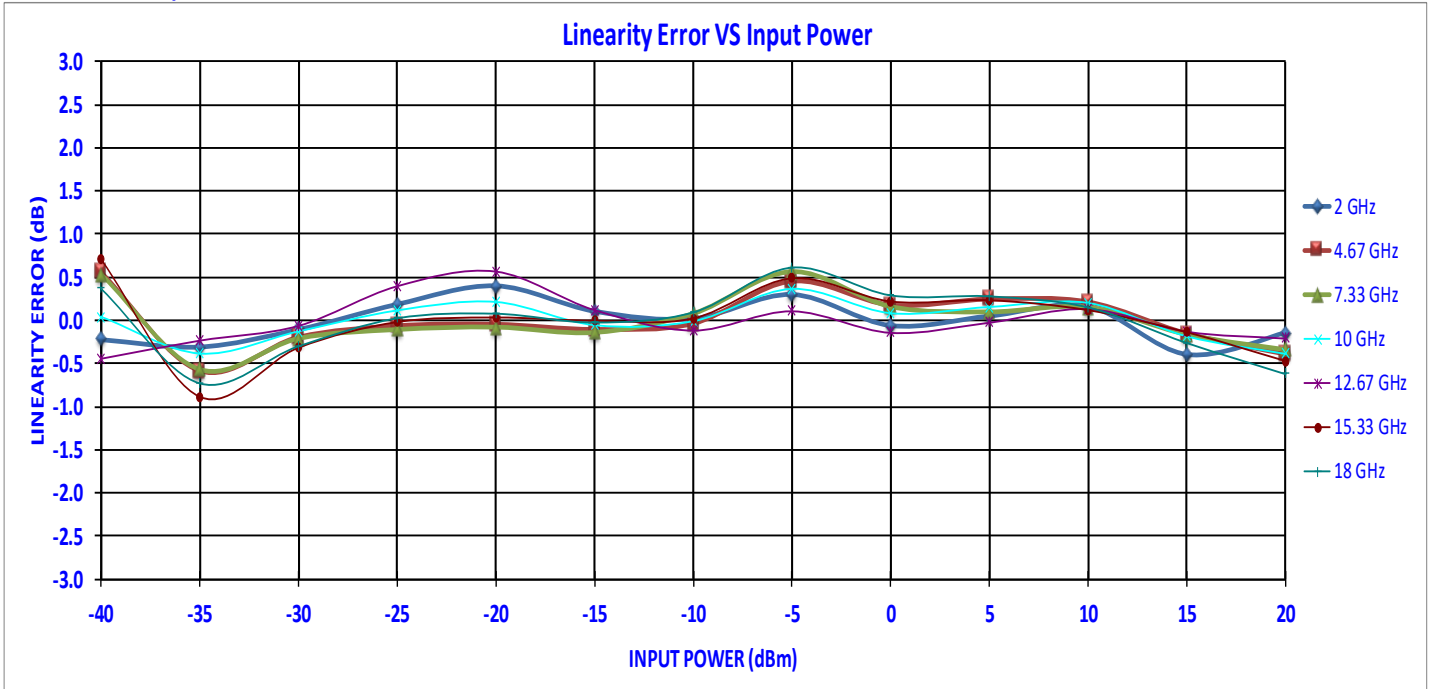
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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



SUMMARY TEST DATA ON ERDLVA-218-CW-75MV

LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-218-CW-75MV
SERIAL NO: PL34915
Test Temp: +85C



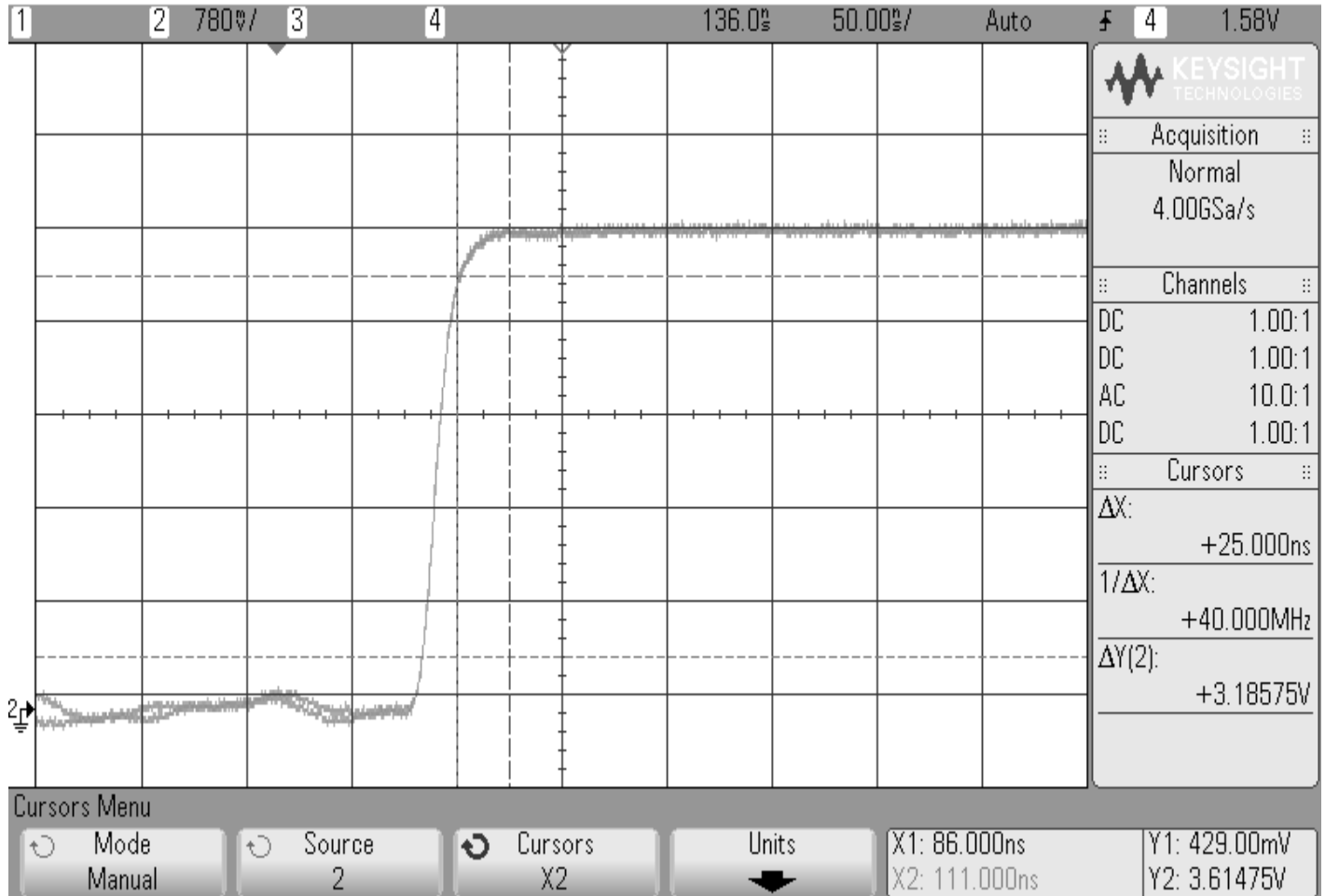
PLANAR MONOLITHICS INDUSTRIES, INC.
4921 Robert J. Mathews Pkwy #1 El Dorado Hills, CA 95762
TEL: 916-542-1401 FAX: 916-265-2597
Email: sales@pmi-rf.com Web: www.pmi-rf.com



**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

Rise Time 22nS, Settling Time 20nS from 90%

MSO-X 3054A, MY53400180: Wed Dec 01 15:07:32 2021

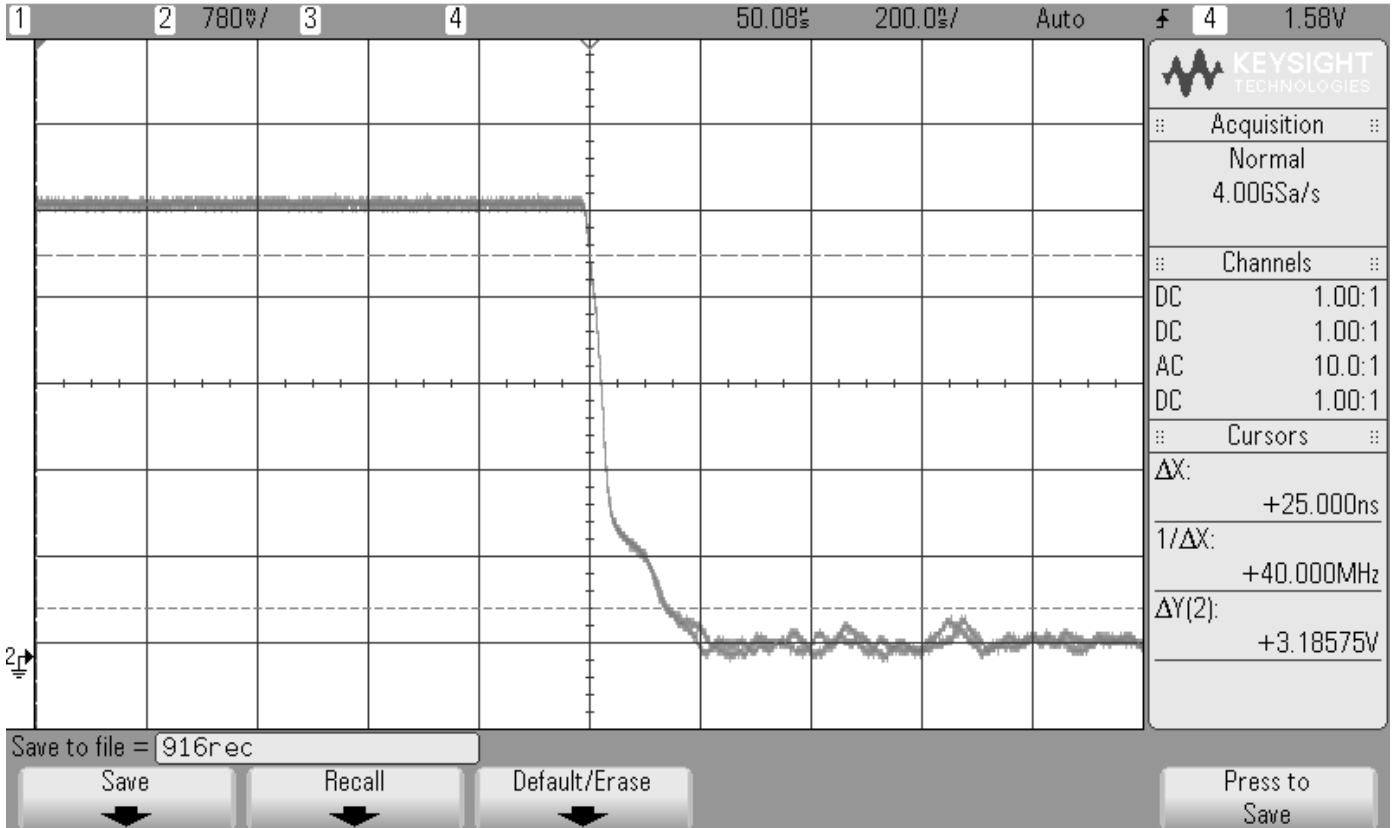




**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

Pulse Recovery Time 220nS

MSO-X 3054A, MY53400180: Wed Dec 01 15:08:49 2021



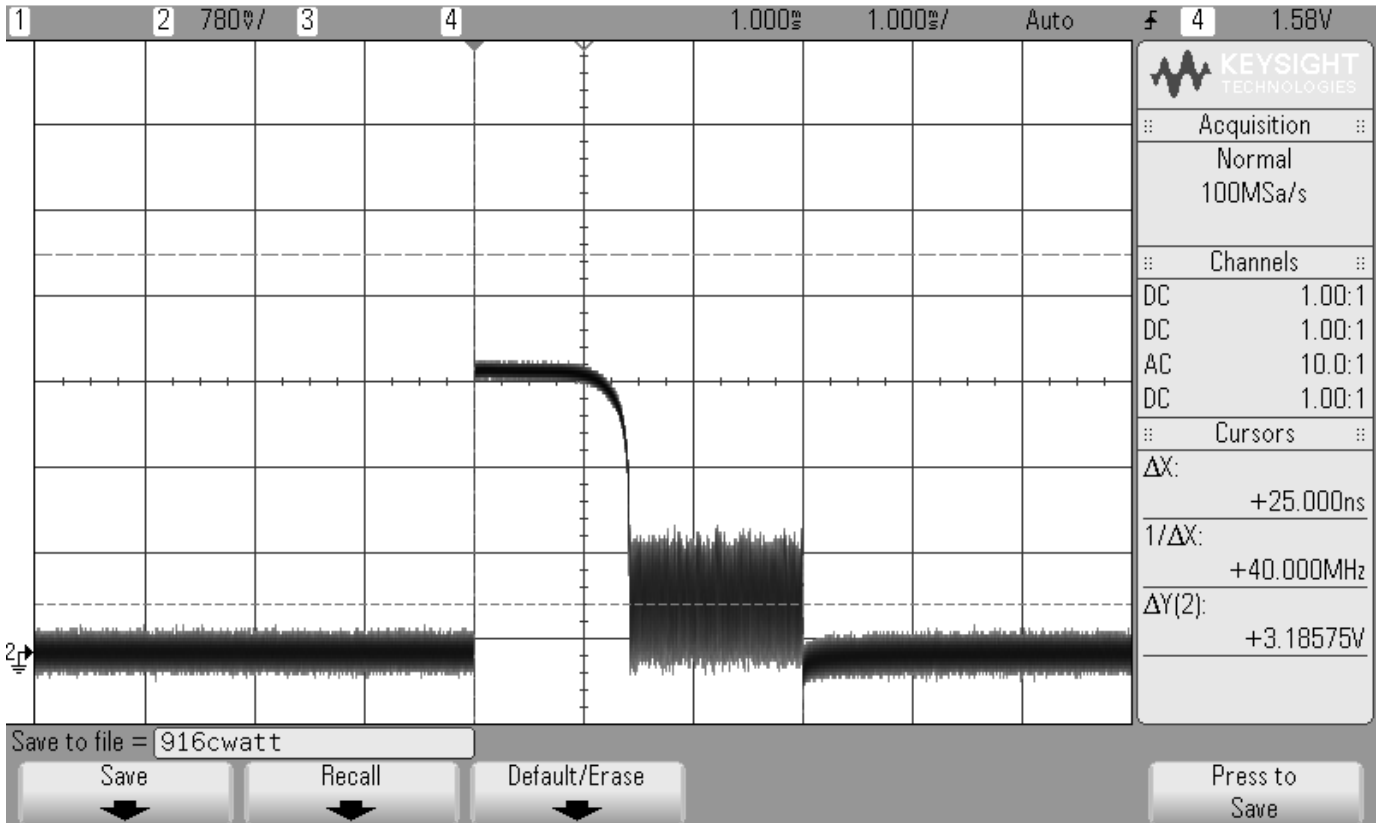
PLANAR MONOLITHICS INDUSTRIES, INC.
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**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

CW Attack Time 1500uS

MSO-X 3054A, MY53400180: Wed Dec 01 15:11:44 2021

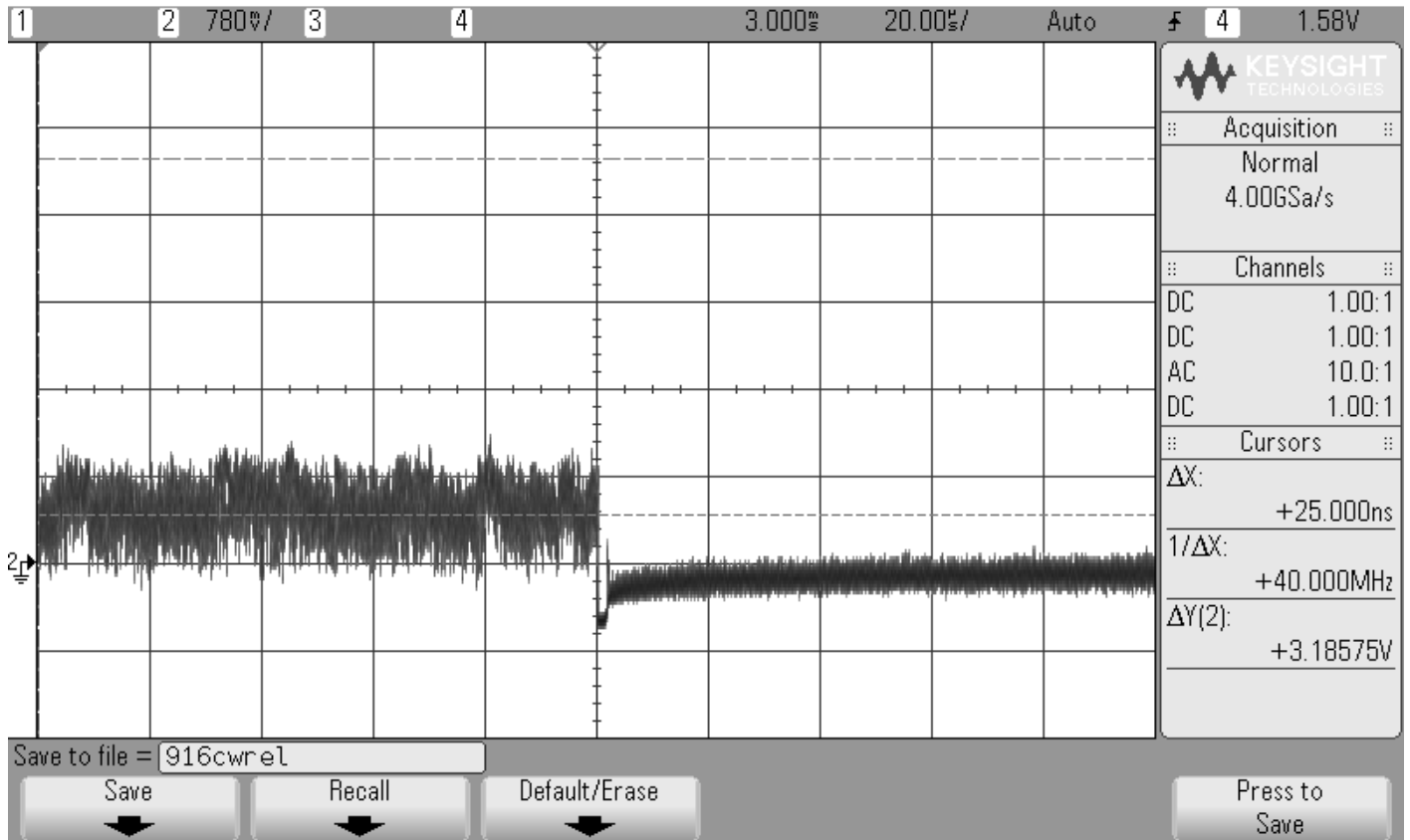




**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

CW Release Time 30uS

MSO-X 3054A, MY53400180: Wed Dec 01 15:12:54 2021





**SUMMARY TEST DATA
ON
ERDLVA-218-CW-75MV**

