Summary Data
For
ERDLVA-2G18G-65-70MV-70C

Customer: [redacted]
SO No: [redacted]
Model No: ERDLVA-2G18G-65-70MV-70C
Serial No: PL51096/2509

Tested By: Anton L.
Temperature: -40°C TO +70°C
Date 2/27/2025
Drawing No: 27642020 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	**2 to 18 GHz**	PMI QA3
2	VSWR:	2.2:1 MAX @ 50 Ω	**1.91 :1 MAX**	
3	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	**Pass**	
4	VIDEO OUT TSS:	-71 dBm MAX	**- 71.8 dBm**	
5	VIDEO OUT Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
6	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	**70.8 mV/dB** **69.1 mV/dB**	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	**0.64 dB** **-0.72 dB**	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	**1.22 dB** **-0.99 dB**	
9	VIDEO OUT Absolute Log Accuracy:	±2.9 dB MAX Over Freq & temp	**1.71 dB** **-1.79 dB**	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	**36 mV**	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	**22.8 ns**	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	**209.7 ns**	

7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

Summary Data
For
ERDLVA-2G18G-65-70MV-70C

13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	**31 ns**	PMI QA3
14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	**0.68 us**	
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	**± 1.06 dB**	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	**Pass**	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	**< 2 dB**	
		Baseline shift 200mV @-40dBm CW	**< 200 mV**	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	**1.33 ms**	
		CW Recovery Time at CW = -40 dBm, ≤ 20 us	**<20 us**	
17	Pulse droop	1dB Max for 300us pulse at or above -65dBm	**<1dB**	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	**100 ns to 300 us**	
19	VIDEO LOAD Impedance:	75 ±1 Ω	**75Ω**	
20	VIDEO driver capability	100 ft RG11 into 75 ohm load	**Pass**	
21	Pulse density capability	10% duty cycle 100 ns, 70% duty cycle 300 us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	**Pass**	

7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

Summary Data
For
ERDLVA-2G18G-65-70MV-70C

22	VIDEO OUT Noise Level (Vp-p):	160 mV max	**146.9 mV**	PMI QA3
23	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	**< 50 ns**	
24	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	**+15 V @ 320 mA** **-15 V @ 80 mA**	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	**Pass**	

QA/QC Approval: K Klamm **Date:** 2·28·25

7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

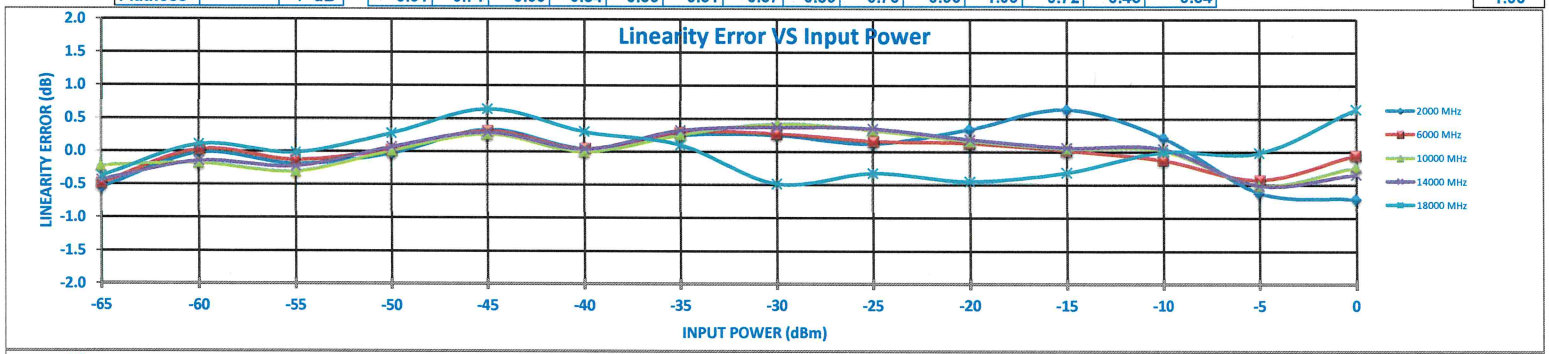
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

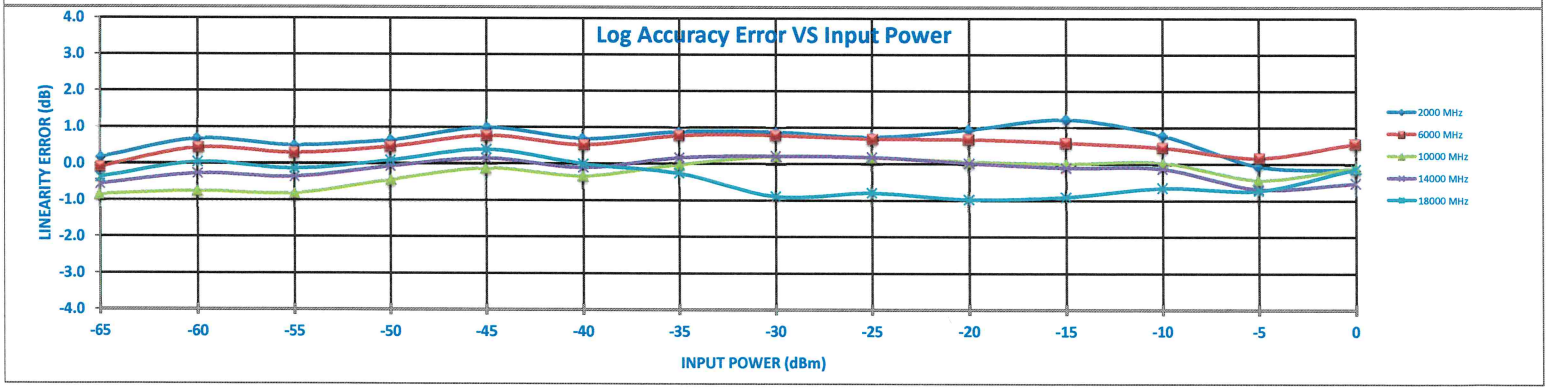
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL51096/2509
DATE: 2/27/2025

Test Temp: 25 °C
Video Offset: 36 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4925	351	737	1074	1434	1808	2137	2500	2849	3189	3553	3923	4242	4533	4875	Measured Value (mV)	
	SLOPE (mV/dB)	69.8	-39	-2	-14	-2	23	3	17	17	8	23	44	15	-43	-50	Error (mV)	
			-0.56	-0.03	-0.20	-0.04	0.32	0.04	0.24	0.24	0.12	0.33	0.64	0.21	-0.62	-0.72	LINEARITY ERROR (dB)	-0.72
			0.16	0.67	0.49	0.64	0.98	0.69	0.88	0.86	0.73	0.93	1.22	0.78	-0.06	-0.17	ACCURACY ERROR (dB)	1.22
6000 MHz	INTERCEPT (mV)	4930	333	720	1060	1422	1793	2125	2493	2843	3186	3535	3878	4219	4549	4926	Measured Value (mV)	
	SLOPE (mV/dB)	70.2	-34	2	-9	2	22	3	20	19	11	9	1	-9	-30	-4	Error (mV)	
			-0.49	0.02	-0.13	0.02	0.31	0.04	0.28	0.27	0.15	0.13	0.01	-0.13	-0.43	-0.06	LINEARITY ERROR (dB)	-0.49
			-0.10	0.43	0.29	0.47	0.77	0.52	0.78	0.78	0.68	0.67	0.57	0.45	0.17	0.55	ACCURACY ERROR (dB)	0.78
10000 MHz	INTERCEPT (mV)	4897	280	637	982	1358	1730	2065	2437	2803	3150	3492	3838	4190	4507	4880	Measured Value (mV)	
	SLOPE (mV/dB)	70.8	-16	-13	-22	0	18	0	18	30	23	11	3	1	-36	-17	Error (mV)	
			-0.22	-0.18	-0.31	0.01	0.26	-0.01	0.25	0.42	0.32	0.15	0.04	0.01	-0.51	-0.24	LINEARITY ERROR (dB)	-0.51
			-0.86	-0.75	-0.82	-0.45	-0.13	-0.34	-0.02	0.21	0.17	0.06	0.00	0.03	-0.43	-0.10	ACCURACY ERROR (dB)	-0.86
14000 MHz	INTERCEPT (mV)	4874	300	670	1014	1384	1749	2081	2450	2803	3151	3489	3830	4178	4489	4850	Measured Value (mV)	
	SLOPE (mV/dB)	69.9	-31	-10	-16	5	20	3	22	26	24	13	4	3	-36	-24	Error (mV)	
			-0.44	-0.15	-0.23	0.06	0.29	0.04	0.32	0.37	0.34	0.18	0.06	0.04	-0.51	-0.35	LINEARITY ERROR (dB)	-0.51
			-0.57	-0.28	-0.37	-0.08	0.14	-0.11	0.16	0.21	0.18	0.01	-0.11	-0.14	-0.69	-0.53	ACCURACY ERROR (dB)	-0.69
18000 MHz	INTERCEPT (mV)	4833	313	692	1029	1395	1766	2088	2420	2725	3082	3419	3774	4141	4486	4877	Measured Value (mV)	
	SLOPE (mV/dB)	69.1	-26	7	-2	19	44	20	7	-34	-23	-31	-22	-1	-1	44	Error (mV)	
			-0.38	0.10	-0.02	0.27	0.64	0.29	0.10	-0.49	-0.33	-0.45	-0.32	-0.01	-0.02	0.64	LINEARITY ERROR (dB)	0.64
			-0.39	0.03	-0.15	0.08	0.38	-0.01	-0.27	-0.91	-0.80	-0.99	-0.91	-0.67	-0.73	-0.15	ACCURACY ERROR (dB)	-0.99
	Flatness		+/- dB	0.51	0.71	0.66	0.54	0.56	0.51	0.57	0.89	0.76	0.96	1.06	0.72	0.45	0.54		1.06





7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

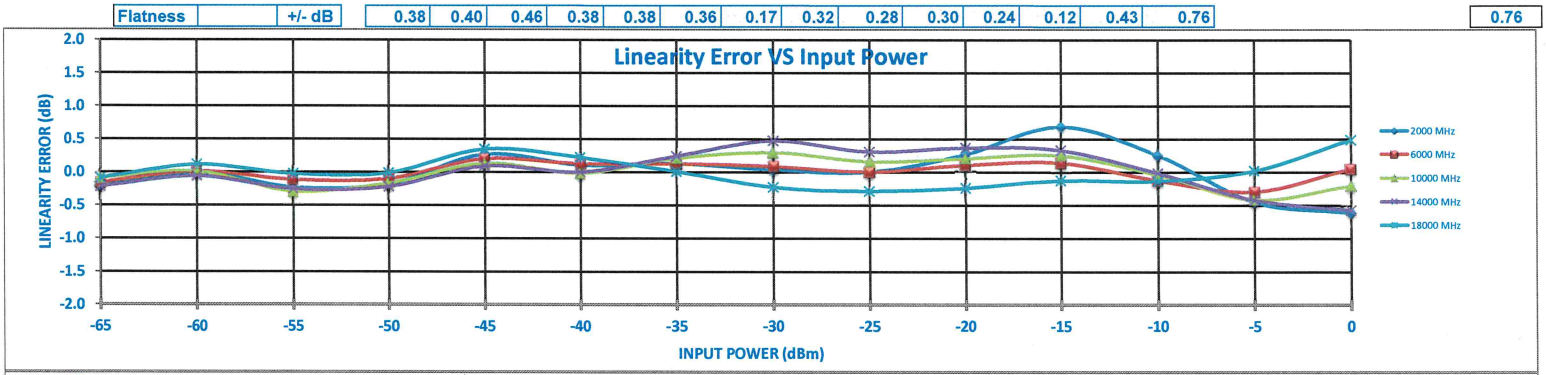
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

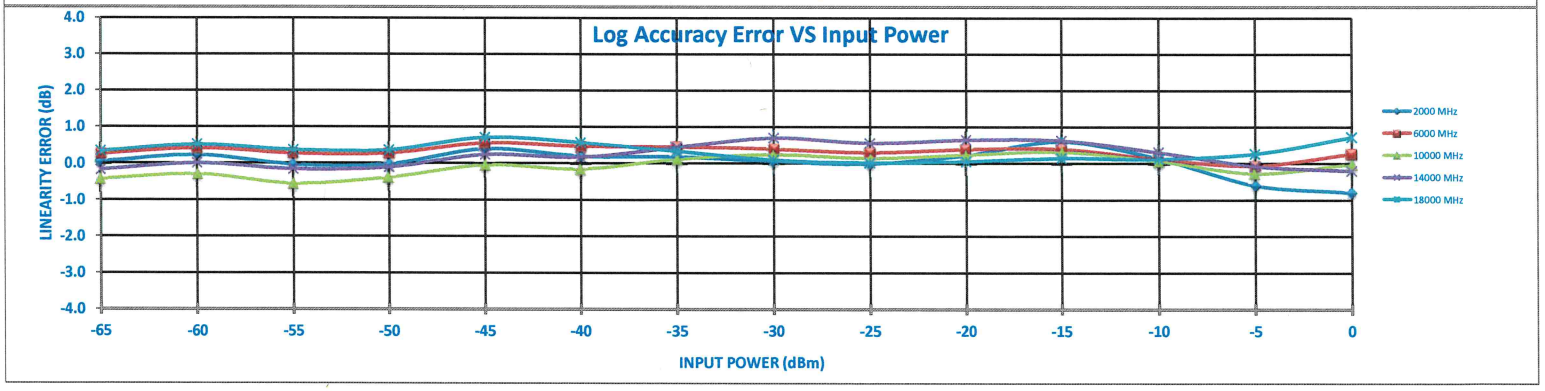
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL51096/2509
DATE: 2/27/2025

Test Temp: -40 °C
Video Offset: 22 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4912	341	707	1041	1395	1777	2116	2468	2812	3160	3529	3909	4229	4530	4869	Measured Value (mV)	
	SLOPE (mV/dB)	70.1	-16	0	-17	-13	19	7	9	2	0	18	48	18	-32	-43	Error (mV)	
			-0.22	0.00	-0.24	-0.19	0.26	0.10	0.12	0.03	0.00	0.26	0.69	0.25	-0.45	-0.62	LINEARITY ERROR (dB)	0.69
			0.04	0.23	-0.04	-0.02	0.39	0.19	0.18	0.05	-0.02	0.21	0.59	0.13	-0.61	-0.80	ACCURACY ERROR (dB)	-0.80
6000 MHz	INTERCEPT (mV)	4941	356	720	1063	1416	1789	2135	2487	2836	3182	3541	3895	4228	4568	4944	Measured Value (mV)	
	SLOPE (mV/dB)	70.4	-12	1	-8	-7	14	8	9	6	0	7	9	-9	-21	3	Error (mV)	
			-0.17	0.01	-0.12	-0.10	0.20	0.12	0.12	0.08	0.00	0.10	0.13	-0.13	-0.30	0.04	LINEARITY ERROR (dB)	-0.30
			0.26	0.41	0.27	0.27	0.56	0.46	0.45	0.39	0.29	0.38	0.40	0.11	-0.07	0.26	ACCURACY ERROR (dB)	0.56
10000 MHz	INTERCEPT (mV)	4939	307	670	1004	1369	1746	2091	2463	2825	3171	3530	3889	4224	4553	4924	Measured Value (mV)	
	SLOPE (mV/dB)	71.2	-7	1	-21	-12	9	-1	15	21	11	14	18	-3	-30	-15	Error (mV)	
			-0.09	0.01	-0.30	-0.17	0.13	-0.02	0.21	0.29	0.16	0.20	0.25	-0.04	-0.42	-0.21	LINEARITY ERROR (dB)	-0.42
			-0.44	-0.30	-0.56	-0.39	-0.05	-0.16	0.11	0.24	0.14	0.22	0.31	0.06	-0.28	-0.03	ACCURACY ERROR (dB)	-0.56
14000 MHz	INTERCEPT (mV)	4952	325	691	1032	1389	1766	2114	2486	2857	3200	3559	3911	4241	4567	4911	Measured Value (mV)	
	SLOPE (mV/dB)	70.9	-16	-5	-18	-16	6	0	17	33	22	26	23	-1	-30	-41	Error (mV)	
			-0.22	-0.06	-0.26	-0.22	0.09	0.00	0.24	0.47	0.30	0.37	0.33	-0.02	-0.42	-0.58	LINEARITY ERROR (dB)	-0.58
			-0.18	0.00	-0.17	-0.11	0.23	0.16	0.43	0.69	0.55	0.64	0.62	0.30	-0.08	-0.21	ACCURACY ERROR (dB)	0.69
18000 MHz	INTERCEPT (mV)	4942	361	727	1069	1422	1799	2142	2479	2814	3162	3517	3877	4228	4591	4976	Measured Value (mV)	
	SLOPE (mV/dB)	70.4	-6	8	-2	-1	24	15	0	-17	-20	-17	-9	-10	1	34	Error (mV)	
			-0.09	0.11	-0.03	-0.01	0.34	0.22	0.01	-0.23	-0.29	-0.25	-0.13	-0.14	0.02	0.49	LINEARITY ERROR (dB)	0.49
			0.33	0.51	0.36	0.36	0.70	0.56	0.33	0.08	0.01	0.04	0.14	0.11	0.26	0.71	ACCURACY ERROR (dB)	0.71
	Flatness	+/- dB	0.38	0.40	0.46	0.38	0.38	0.36	0.17	0.32	0.28	0.30	0.24	0.12	0.43	0.76		0.76





7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

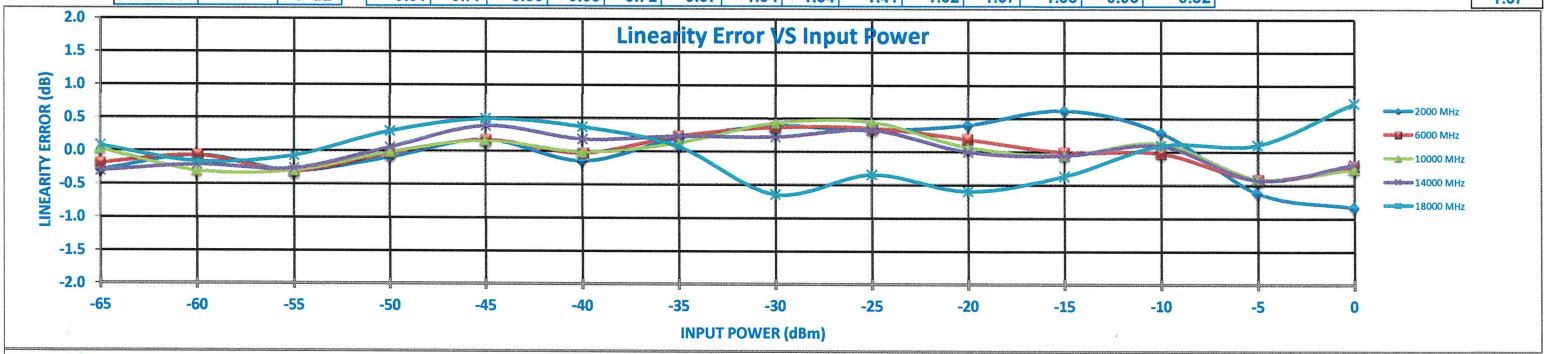
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

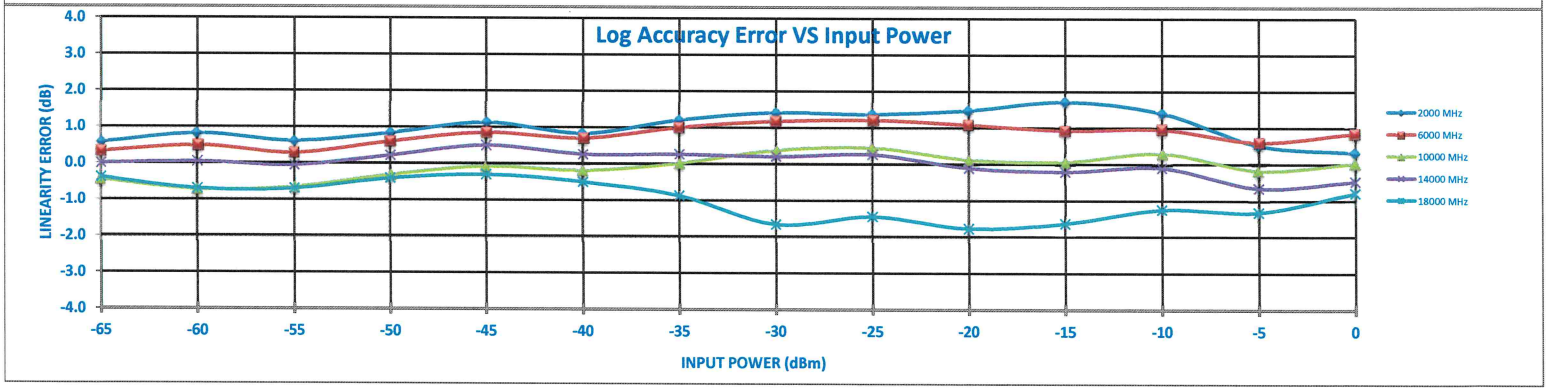
LOG TRANSFER WITH FREQUENCY

TESTED BY: Anton L.
MODEL: ERDLVA-2G18G-65-70MV-70C
SERIAL NO: PL51096/2509
DATE: 2/27/2025

Test Temp: 70 °C
Video Offset: 48 mV

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2000 MHz	INTERCEPT (mV)	4870	307	672	1005	1369	1737	2064	2438	2800	3145	3500	3865	4191	4477	4811	Measured Value (mV)	
	SLOPE (mV/dB)	69.9	-21	-5	-21	-7	12	-11	14	27	22	28	43	20	-43	-59	Error (mV)	
			-0.29	-0.07	-0.31	-0.10	0.17	-0.15	0.20	0.38	0.32	0.40	0.62	0.29	-0.62	-0.84	LINEARITY ERROR (dB)	-0.84
			0.56	0.81	0.60	0.83	1.12	0.82	1.20	1.40	1.36	1.46	1.71	1.40	0.51	0.31	ACCURACY ERROR (dB)	1.71
6000 MHz	INTERCEPT (mV)	4863	290	649	983	1353	1718	2055	2424	2784	3134	3473	3810	4160	4483	4848	Measured Value (mV)	
	SLOPE (mV/dB)	70.2	-13	-5	-22	-3	12	-2	16	25	25	13	-1	-2	-29	-15	Error (mV)	
			-0.19	-0.07	-0.31	-0.04	0.17	-0.03	0.23	0.36	0.35	0.19	-0.01	-0.02	-0.42	-0.21	LINEARITY ERROR (dB)	-0.42
			0.32	0.48	0.28	0.60	0.85	0.69	0.99	1.17	1.20	1.07	0.92	0.95	0.59	0.84	ACCURACY ERROR (dB)	1.20
10000 MHz	INTERCEPT (mV)	4809	236	565	917	1289	1653	1993	2355	2728	3081	3406	3750	4114	4429	4791	Measured Value (mV)	
	SLOPE (mV/dB)	70.4	2	-21	-21	-1	11	-1	9	30	31	4	-4	8	-28	-18	Error (mV)	
			0.02	-0.30	-0.30	-0.02	0.15	-0.02	0.13	0.43	0.44	0.06	-0.05	0.12	-0.40	-0.26	LINEARITY ERROR (dB)	0.44
			-0.46	-0.73	-0.67	-0.32	-0.09	-0.20	0.00	0.36	0.44	0.11	0.06	0.29	-0.18	0.02	ACCURACY ERROR (dB)	-0.73
14000 MHz	INTERCEPT (mV)	4769	267	618	959	1326	1693	2024	2372	2716	3068	3390	3731	4086	4395	4756	Measured Value (mV)	
	SLOPE (mV/dB)	68.9	-21	-15	-18	4	26	12	16	15	22	0	-4	6	-30	-13	Error (mV)	
			-0.31	-0.21	-0.27	0.06	0.38	0.18	0.23	0.22	0.32	-0.01	-0.06	0.09	-0.43	-0.19	LINEARITY ERROR (dB)	-0.43
			-0.01	0.03	-0.07	0.21	0.49	0.24	0.25	0.19	0.25	-0.12	-0.22	-0.11	-0.67	-0.48	ACCURACY ERROR (dB)	-0.67
18000 MHz	INTERCEPT (mV)	4684	240	566	914	1282	1637	1971	2293	2586	2949	3274	3632	4006	4349	4734	Measured Value (mV)	
	SLOPE (mV/dB)	68.5	5	-11	-5	20	33	25	5	-45	-24	-41	-25	6	7	50	Error (mV)	
			0.08	-0.16	-0.08	0.30	0.48	0.36	0.07	-0.65	-0.35	-0.60	-0.37	0.09	0.10	0.73	LINEARITY ERROR (dB)	0.73
			-0.40	-0.72	-0.71	-0.42	-0.32	-0.52	-0.89	-1.68	-1.46	-1.79	-1.64	-1.26	-1.33	-0.80	ACCURACY ERROR (dB)	-1.79
	Flatness		+/- dB	0.51	0.77	0.65	0.63	0.72	0.67	1.04	1.54	1.41	1.62	1.67	1.33	0.96	0.82		1.67



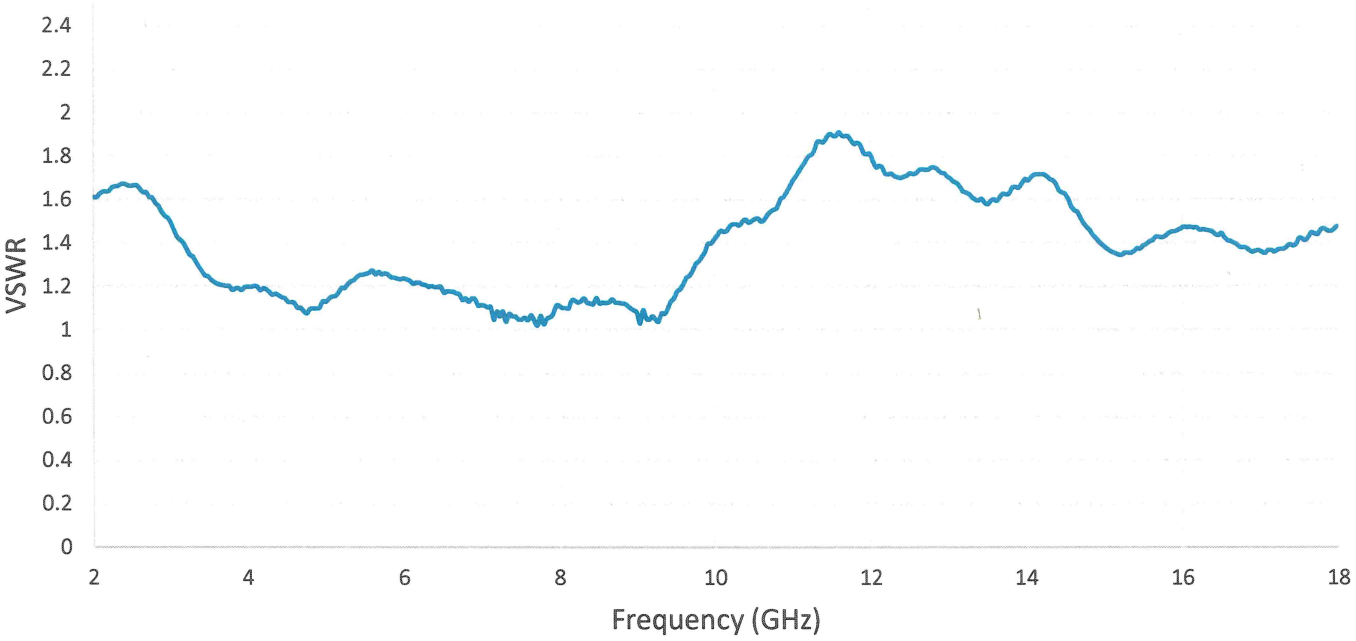


7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

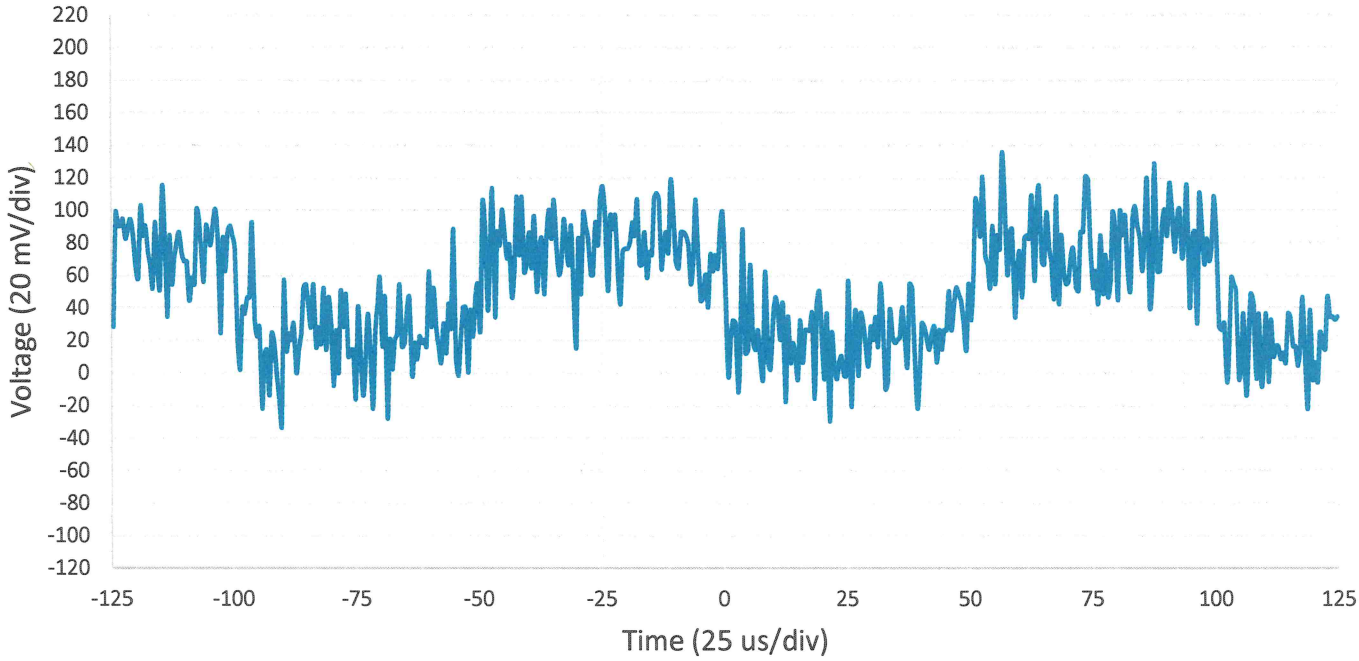
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL51096/2509

VSWR 1.91:1



TSS @ -71.8 dBm

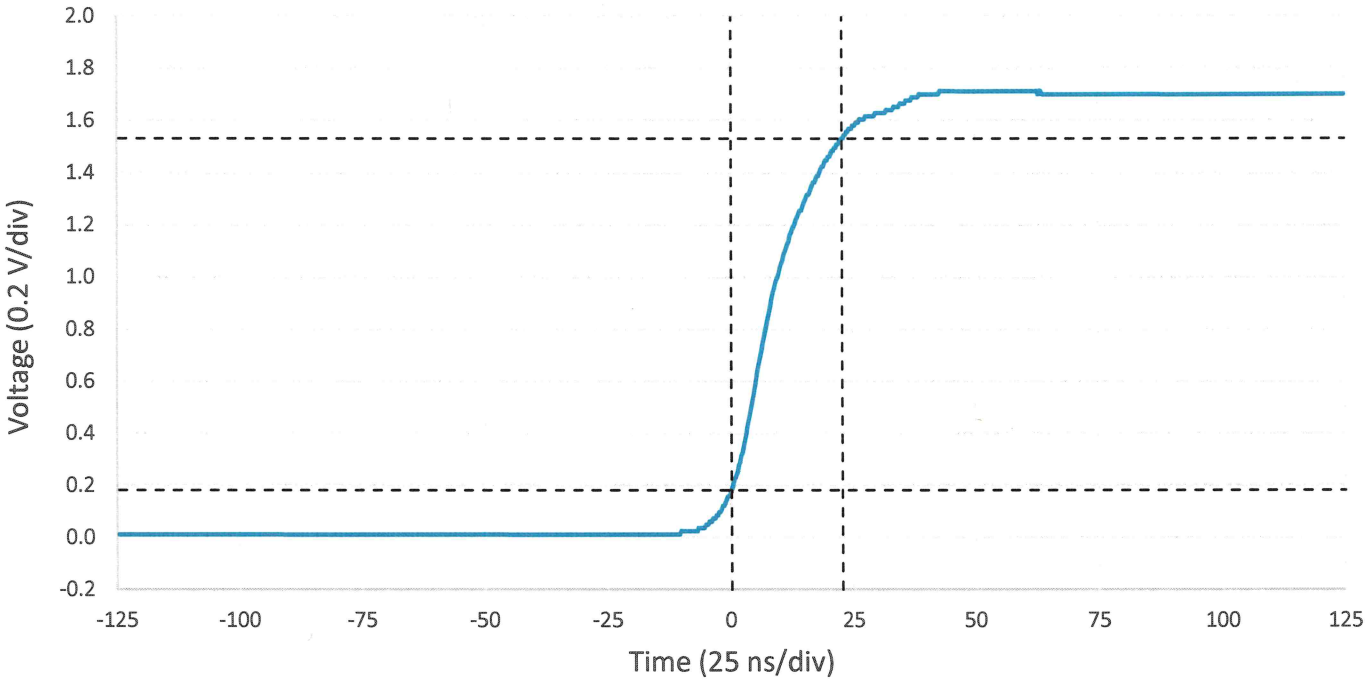


7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

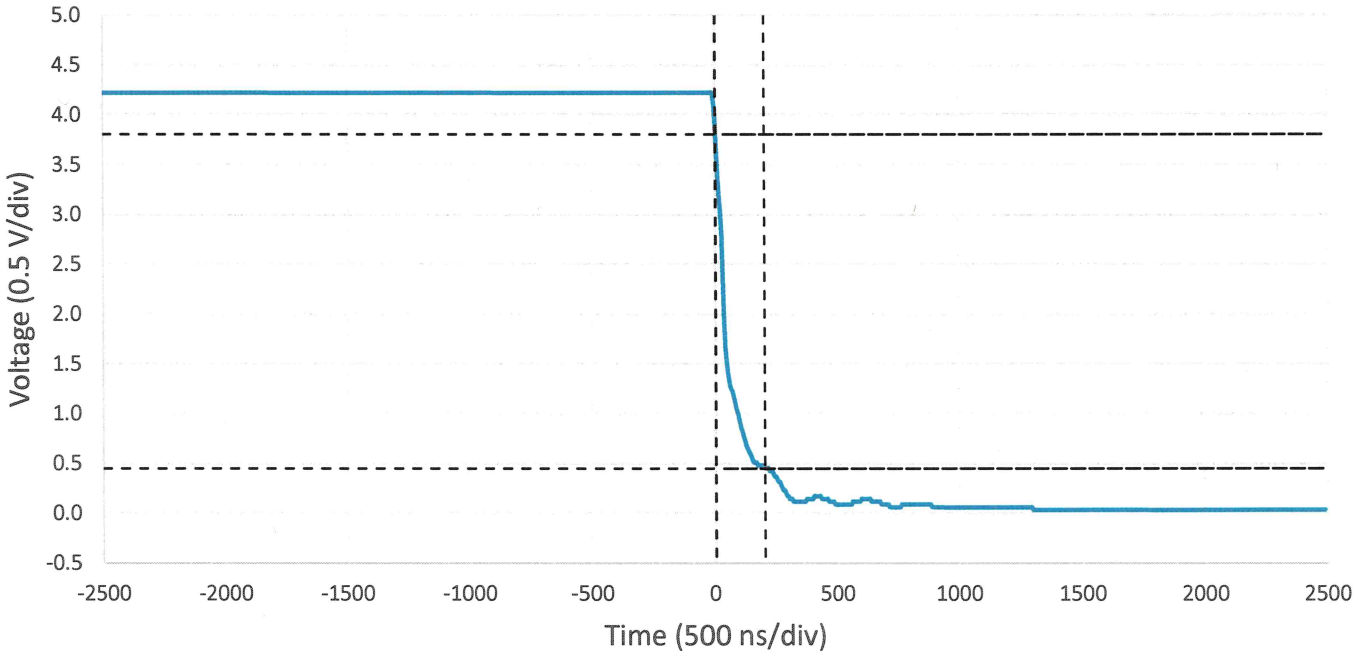
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL51096/2509

Rise time 22.8 ns



Fall time 209.7 ns

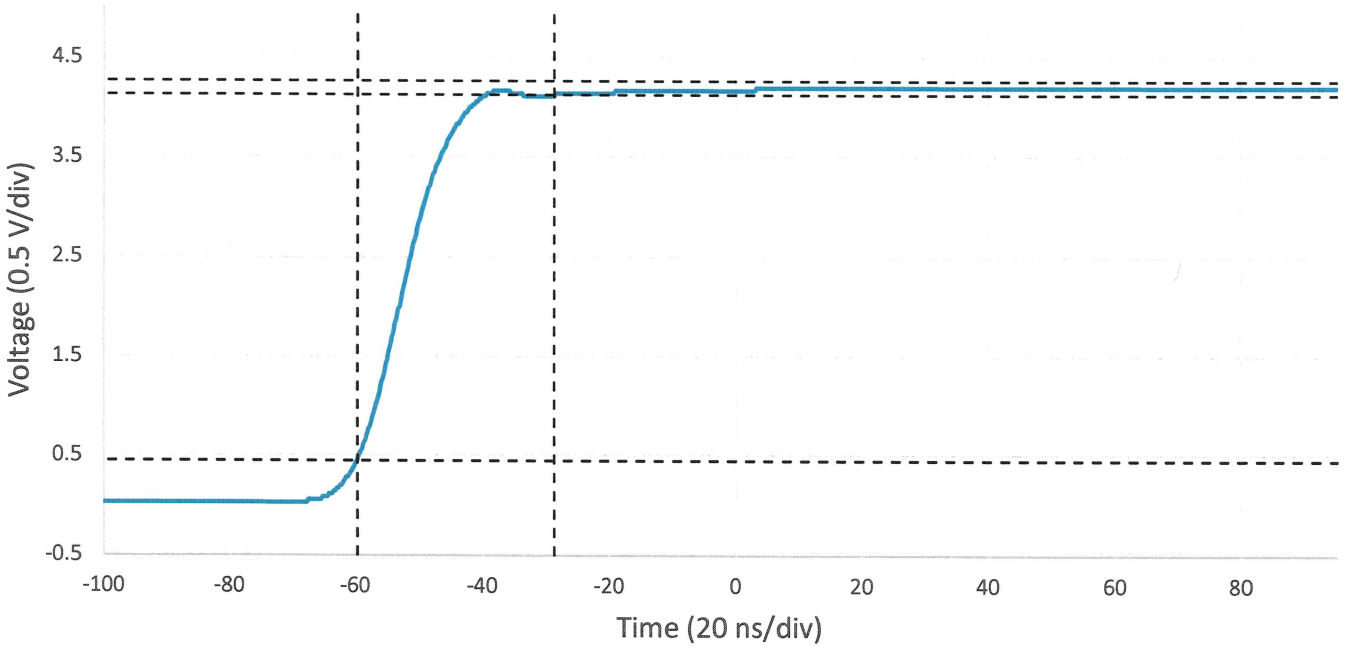


7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

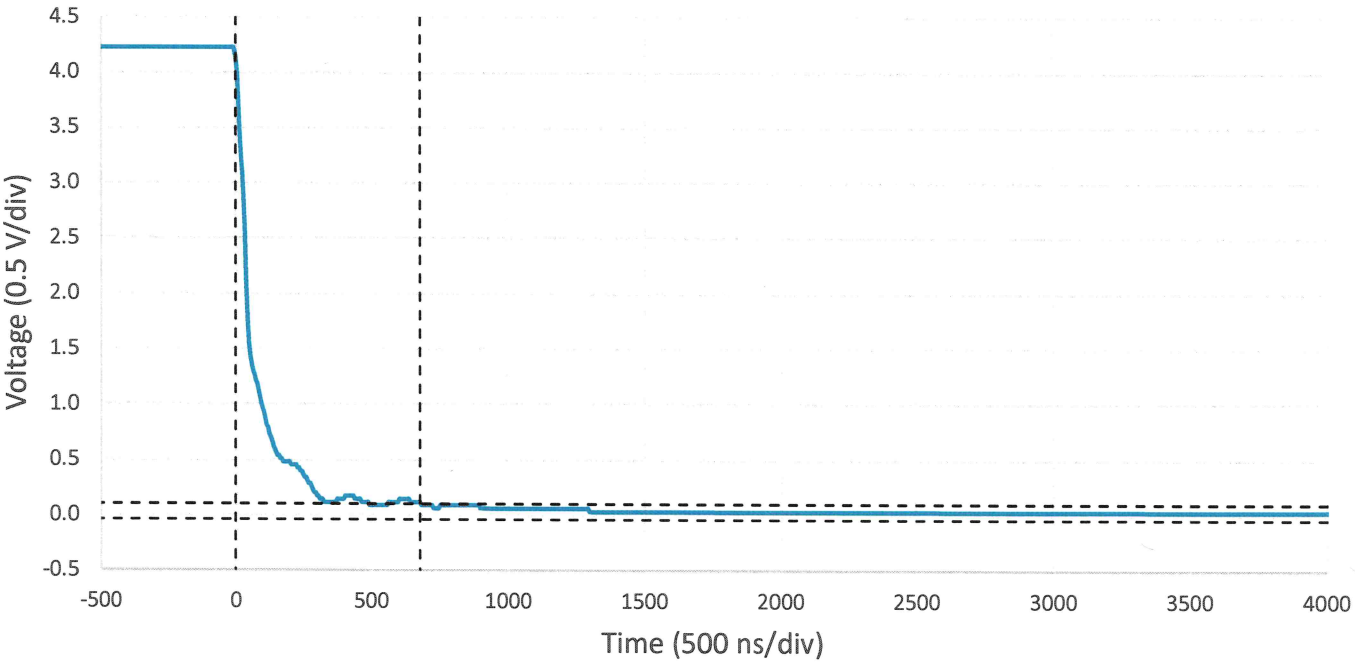
Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL51096/2509

Settle time 31 ns



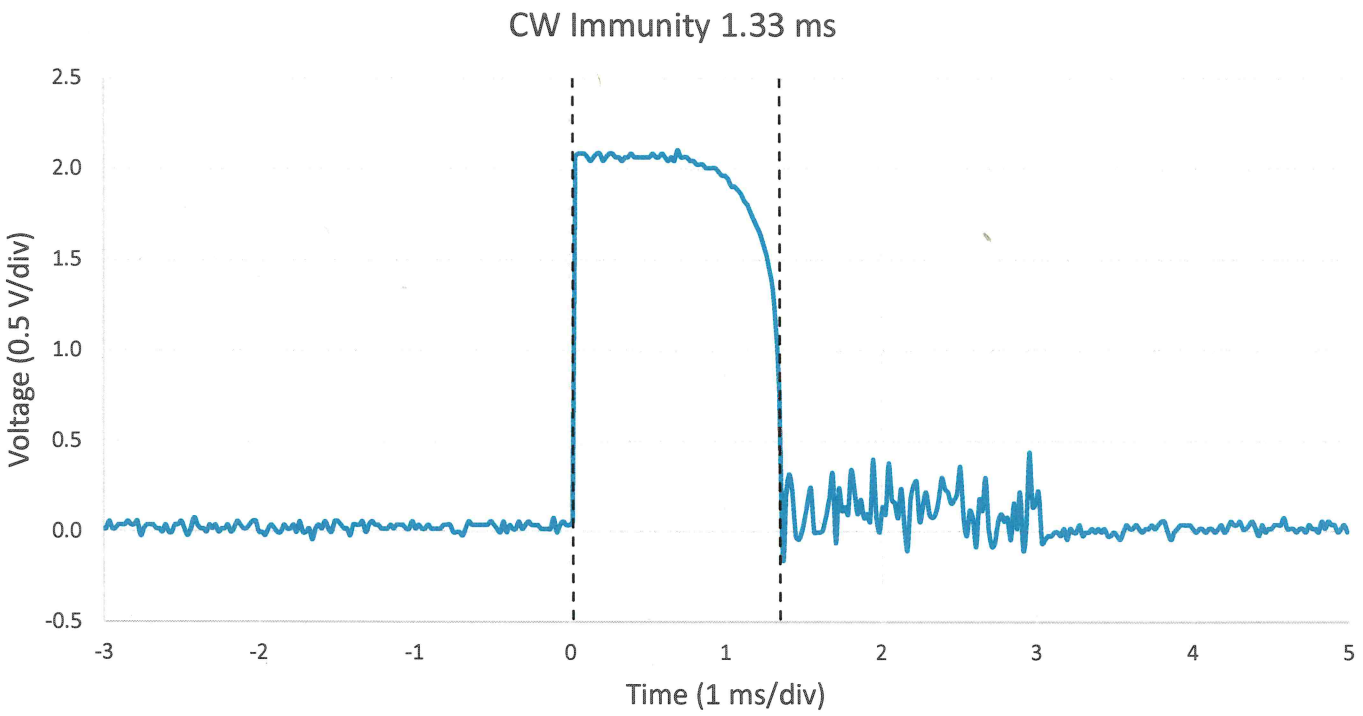
Recovery time 680 ns

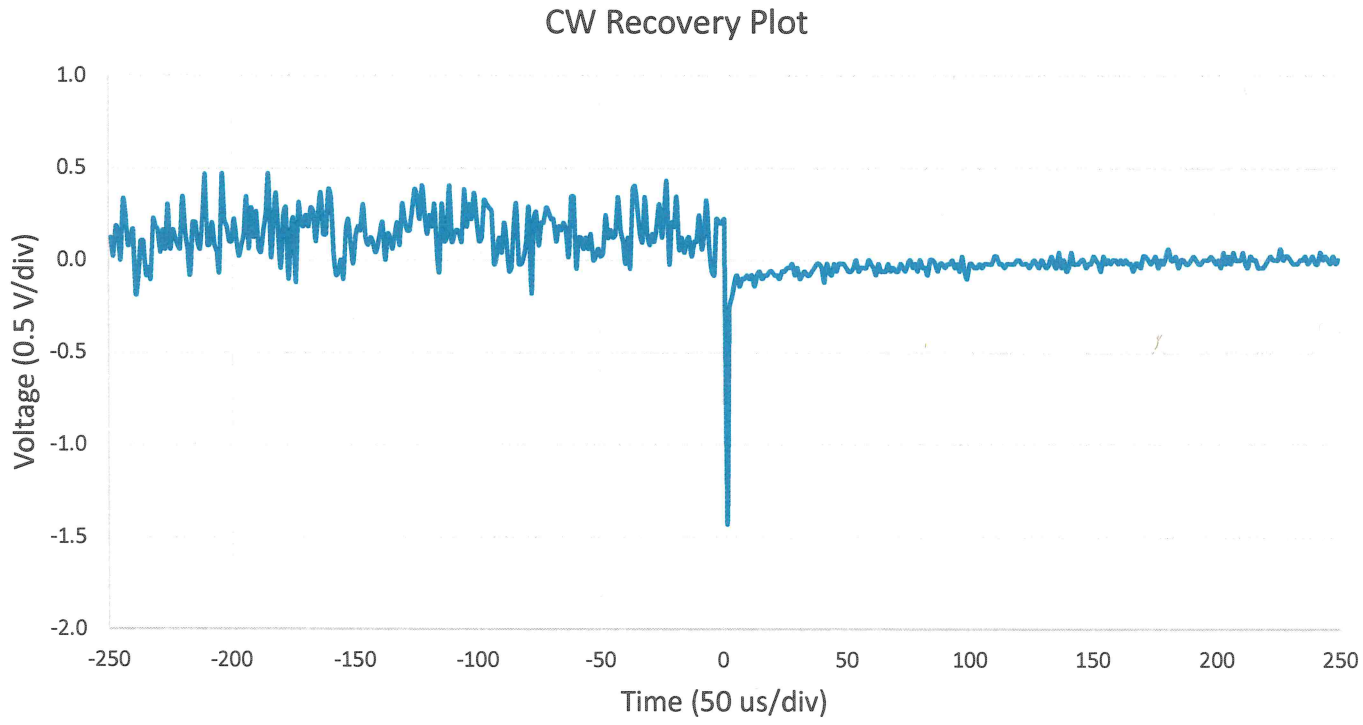


7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL51096/2509

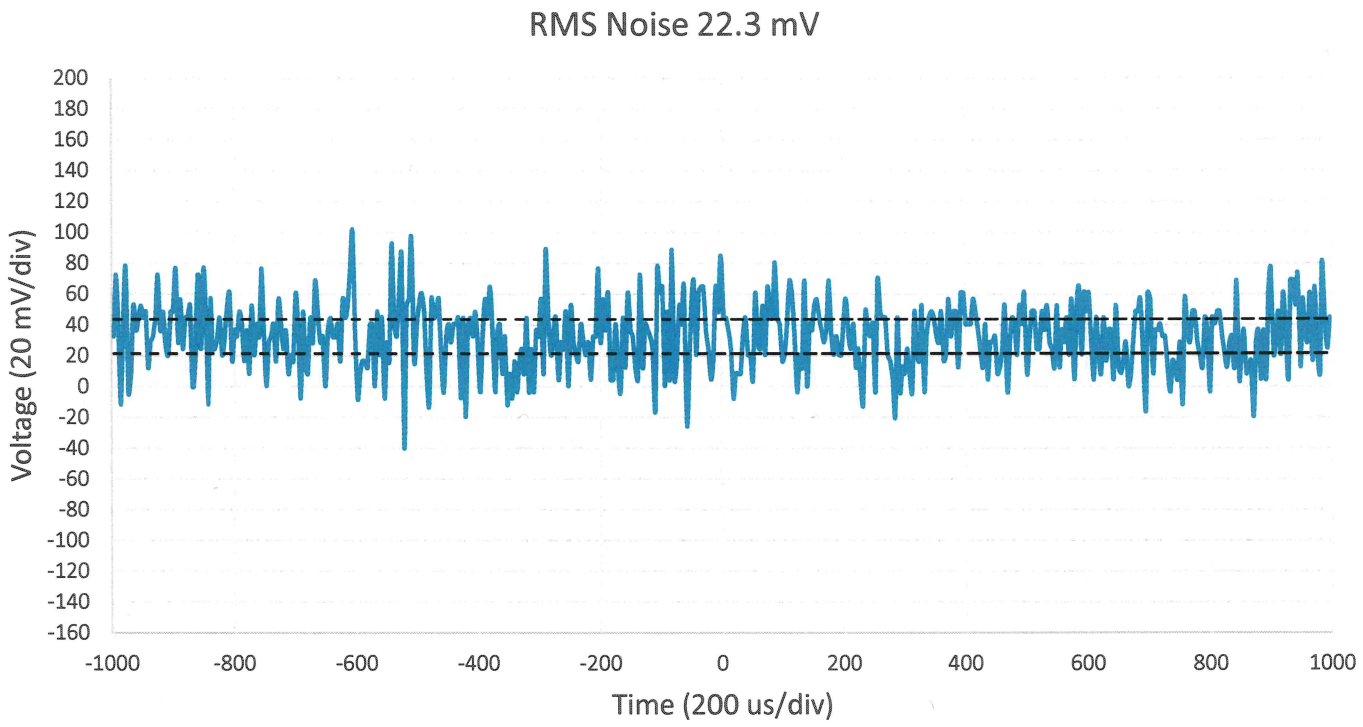




7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com

Summary Data
For
ERDLVA-2G18G-65-70MV-70C

PL51096/2509



7311-F Grove Road Frederick, MD 21704 USA
Phone: (301)662-5019 Fax: (301)662-1731
Website: www.pmi-rf.com Email: sales@pmi-rf.com