



**SUMMARY TEST DATA
ON
DLVA-218-45-100MV-CW**

PL37092/2230

Customer: _____	Tested By: <u>Jim Hopson</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>DLVA-218-45-100MV-CW</u>	Date: <u>07/26/22</u>
Serial No: <u>PL37092/2230</u>	Drawing No: <u>27633820</u> Rev: <u>A2</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	2 GHz to 18 GHz	2 GHz to 18 GHz	
2	Frequency Flatness	±2.0 dB TYP.	±0.5 dB	
3	Signal Capability	Pulse (100 ns – 300 µs)	Pass	
4	TSS from -20°C to +85°C	-45 dBm TYP.	-46 dBm Typ	
5	Log Dynamic Range	-40 dBm to +5 dBm	-40 dBm to +5 dBm	
6	Log Slope	100 mV/dB Nominal	100.6 mV/dB	
7	Log Linearity	±1.5 dB Max	+0.68 dB -0.23 dB	
8	DC Offset	±150 mV TYP.	128 mV	
9	Output Rise Time	25 ns Max	21 ns	
10	Settling Time	55ns Max, 90% Output to ±0.5dB of Final Value	Pass	
11	Recovery Time	500 ns Max	480 ns	
12	Input VSWR	2.5 : 1 TYP.	2.47 : 1	
13	Max Input Level	+20dBm CW	+20 dBm CW	
14	Power Supply	+15VDC @ 150mA Max -15VDC @ 150mA Max	70 mA 70 mA	

QA/QC Approval: _____ Date: _____

4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762
 Phone: (916) 542-1401 Fax: (916) 265-2597
 Email: sales@pmi-rf.com



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Transfer Response @ 25°C

LOG TRANSFER WITH FREQUENCY
MODEL: DLVA-218-45-100MV-CW
TESTED BY: Jim Hopson
TEST DATE: 07/21/2022
SERIAL NO: PL37092
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
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DC Offset= 0.128 V

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
2 GHz	4466	101

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
9.25 GHz	4413	98.3

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
18 GHz	4490	103

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-40	-35	-30	-25	-20	-15	-10	-5	0	5
476	961	1427	1938	2450	2970	3489	3962	4460	5011	
42	23	-15	-8	0	16	31	0	-6	41	
0.42	0.23	-0.15	-0.08	0.00	0.16	0.31	0.00	-0.06	0.41	
0.02	-0.16	-0.52	-0.44	-0.35	-0.18	-0.02	-0.32	-0.36	0.12	
491	977	1453	1959	2460	2967	3456	3912	4392	4922	
9	3	-12	2	12	28	25	-10	-21	17	
0.09	0.03	-0.12	0.02	0.12	0.28	0.26	-0.10	-0.22	0.18	
0.17	0.00	-0.26	-0.23	-0.25	-0.21	-0.35	-0.81	-1.04	-0.77	
455	927	1397	1913	2414	2962	3495	3987	4500	5056	
70	28	-15	-12	-24	11	31	10	10	53	
0.68	0.28	-0.14	-0.11	-0.23	0.11	0.30	0.10	0.09	0.51	
-0.19	-0.50	-0.82	-0.69	-0.71	-0.26	0.04	-0.07	0.03	0.56	
0.20	0.30	0.30	0.20	0.20	0.00	0.20	0.40	0.50	0.70	
0.491	0.977	1.453	1.959	2.460	2.970	3.495	3.987	4.500	5.056	
0.455	0.927	1.397	1.913	2.414	2.962	3.456	3.912	4.392	4.922	

RF Input Power (dBm)	
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.42 -0.15
LOGGING ACCURACY (dB)	0.12 -0.52

RF Input Power (dBm)	
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.28 -0.22
LOGGING ACCURACY (dB)	0.17 -1.04

RF Input Power (dBm)	
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.68 -0.23
LOGGING ACCURACY (dB)	0.56 -0.82

Logging Linearity vs Frequency	Error(dB)
MAX	MIN
TOTAL LOG LINEARITY (dB)	0.68 -0.23

Logging Accuracy vs Frequency	Error(dB)
MAX	MIN
TOTAL LOGGING ACCURACY (dB)	0.56 -1.04



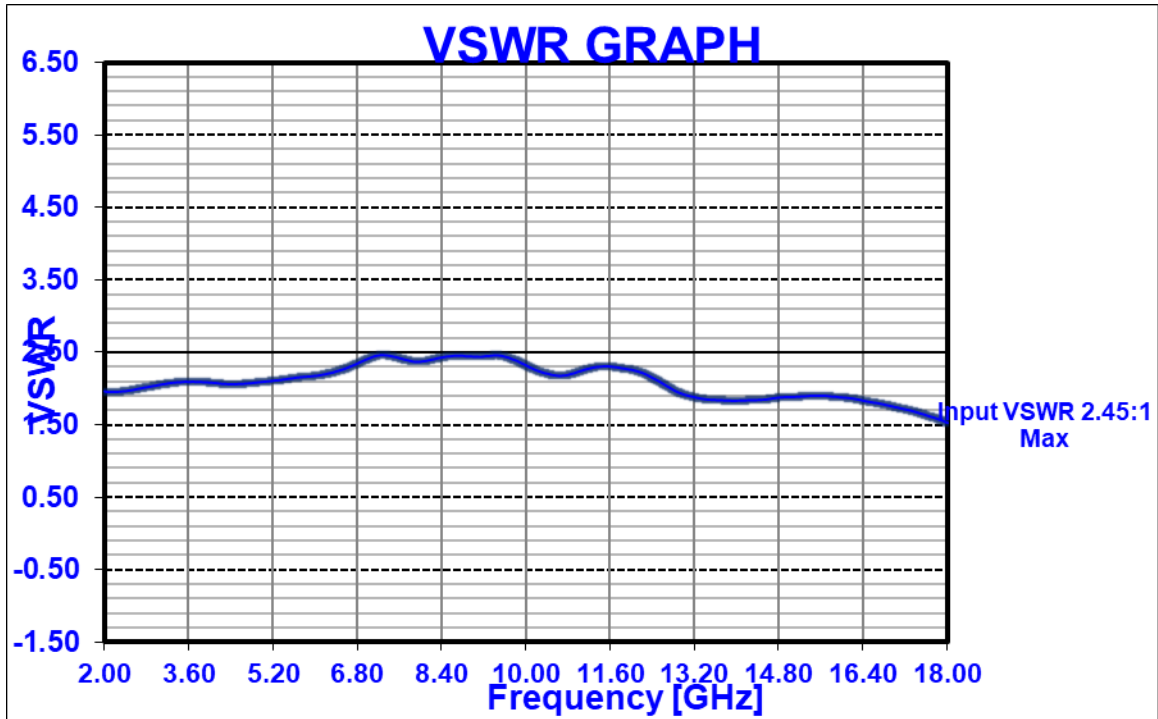
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VSWR

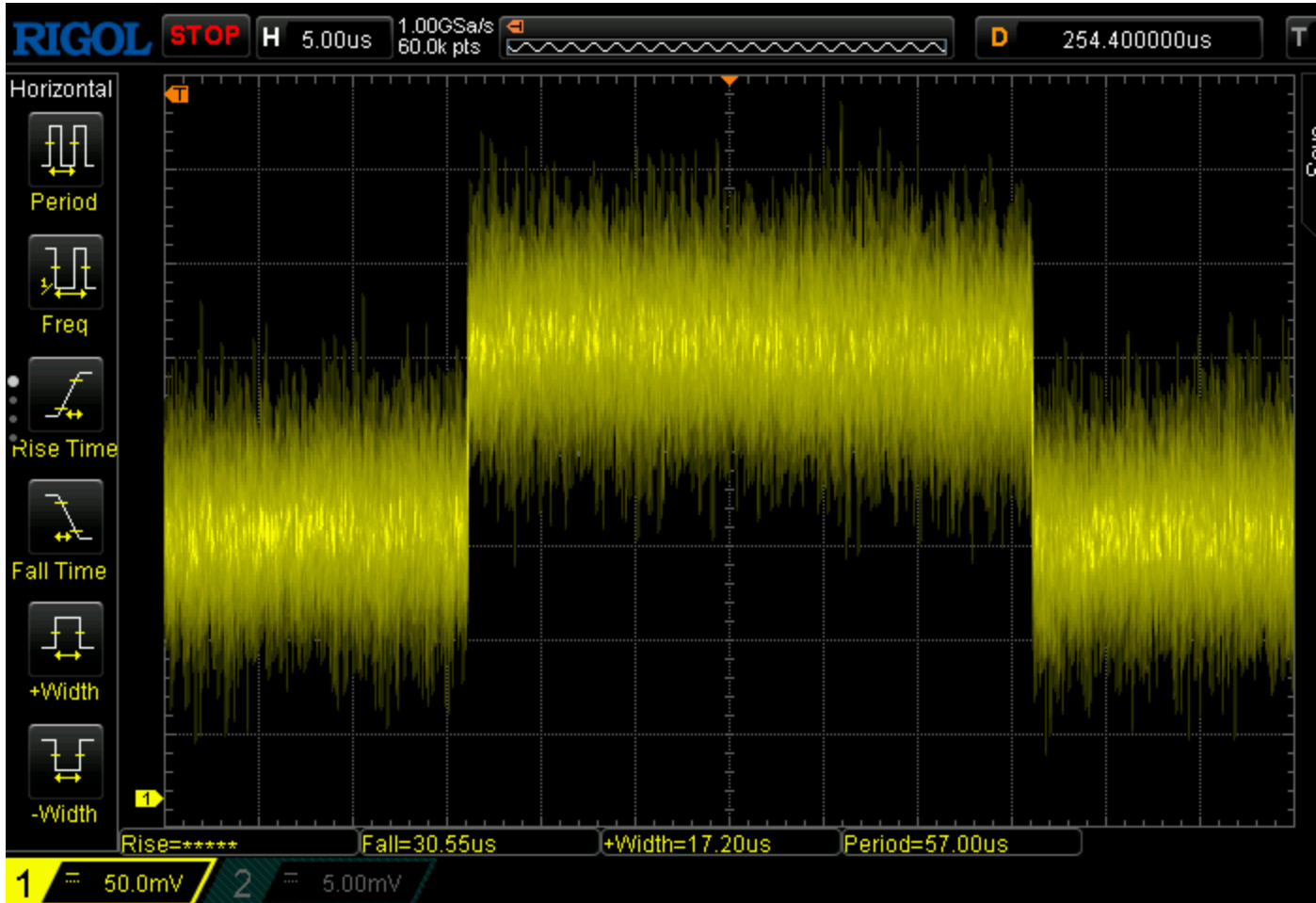




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TSS -46 dBm @ 25°C



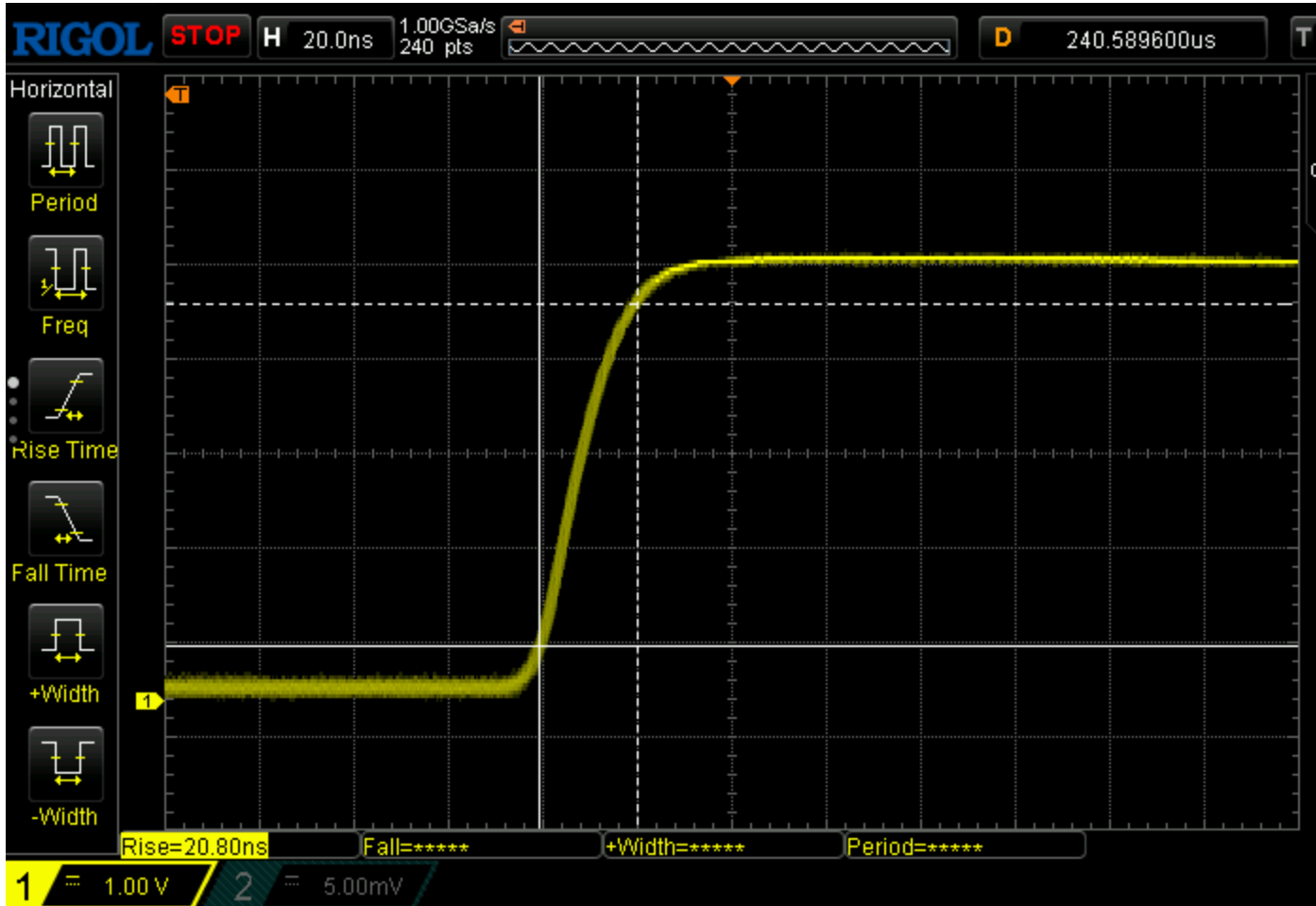
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Rise Time



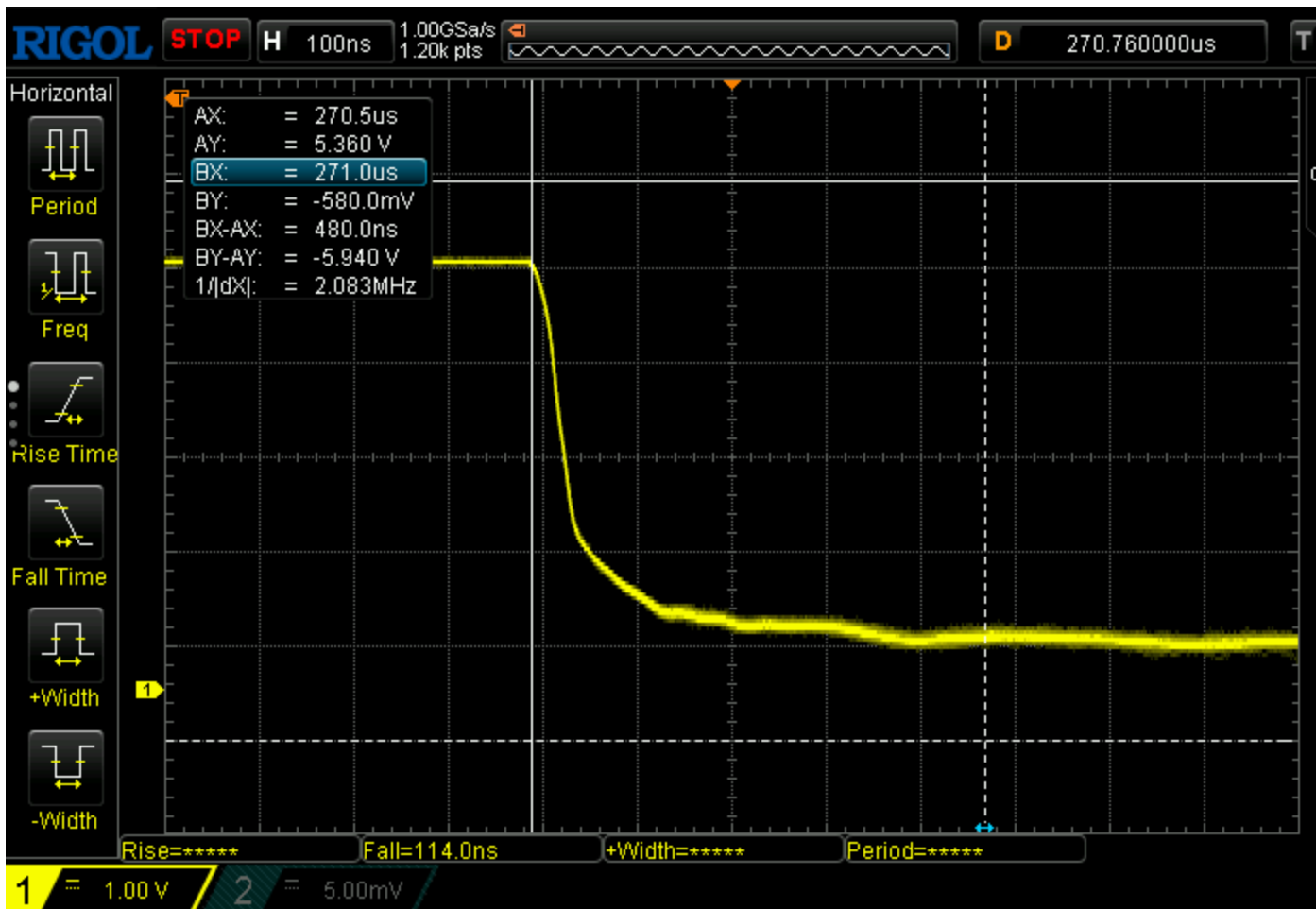
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Recovery Time



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