



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

**PL30791/2230**

Customer: \_\_\_\_\_ Tested By: Jim Hopson  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: DLVA-218-45-100MV-CW Date: 07/26/22  
Serial No: PL30791/2230 Drawing No: 27633820 Rev: A2

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.	±0.7 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	101 mV/dB	
7	Log Linearity	±1.5 dB Max	+0.56 dB -0.40 dB	
8	DC Offset	±150 mV TYP.	148 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.	2.46 : 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](mailto: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: PL37091  
 TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES  
 4921 Robert J. Mathews Parkway Suite 1  
 El Dorado Hills, CA 95762  
 TEL: 916-542-1401 FAX: 916-265-2597  
 EMAIL: SALES@PMI-RF.COM

DC Offset= 0.148 V

Frequency

2 GHz	INTERCEPT (mV)	4559
	SLOPE (mV/dB)	102

9.25 GHz	INTERCEPT (mV)	4506
	SLOPE (mV/dB)	99.8

18 GHz	INTERCEPT (mV)	4584
	SLOPE (mV/dB)	104

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

	-40	-35	-30	-25	-20	-15	-10	-5	0	5
503	1017	1492	2011	2542	3066	3582	4028	4540	5116	
21	26	-9	0	22	36	42	-21	-19	47	
0.21	0.25	-0.09	0.00	0.21	0.35	0.42	-0.21	-0.19	0.46	
0.06	0.11	-0.23	-0.13	0.09	0.23	0.30	-0.32	-0.29	0.37	
504	1017	1506	2023	2540	3057	3548	3979	4466	5028	
-11	4	-6	12	30	48	40	-28	-40	23	
-0.11	0.04	-0.06	0.12	0.30	0.48	0.40	-0.28	-0.40	0.23	
0.07	0.11	-0.09	-0.01	0.07	0.14	-0.03	-0.80	-1.02	-0.50	
484	982	1463	1988	2504	3056	3589	4052	4582	5160	
50	29	-9	-2	-5	28	43	-13	-2	58	
0.48	0.28	-0.08	-0.02	-0.05	0.27	0.41	-0.13	-0.02	0.56	
-0.13	-0.24	-0.51	-0.36	-0.29	0.13	0.37	-0.08	0.12	0.80	
0.10	0.20	0.20	0.20	0.20	0.10	0.20	0.40	0.60	0.70	
0.504	1.017	1.506	2.023	2.542	3.066	3.589	4.052	4.582	5.160	
0.484	0.982	1.463	1.988	2.504	3.056	3.548	3.979	4.466	5.028	

RF Input Power (dBm)

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.46 -0.21
LOGGING ACCURACY (dB)	0.37 -0.32

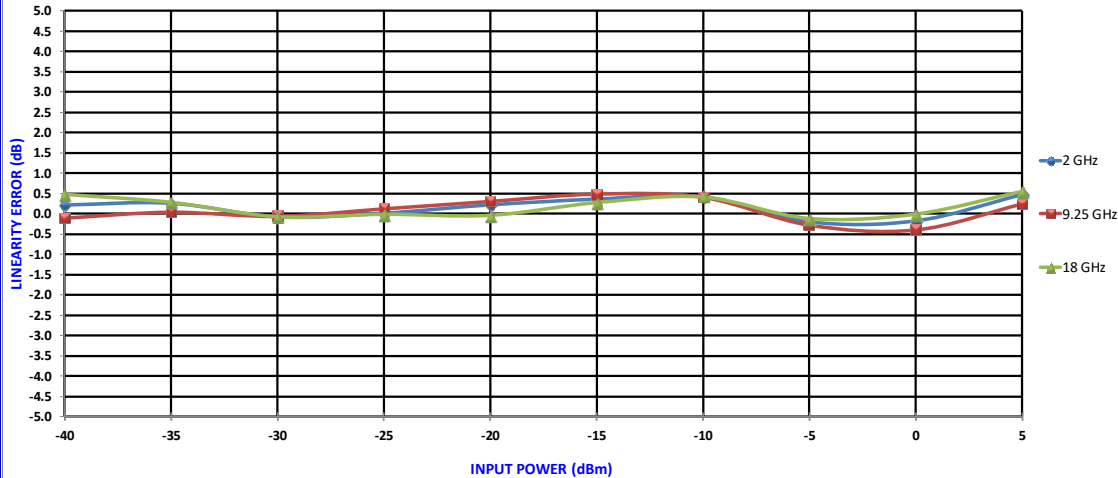
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.48 -0.40
LOGGING ACCURACY (dB)	0.14 -1.02

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.56 -0.13
LOGGING ACCURACY (dB)	0.80 -0.51

Logging Linearity vs Frequency	Error(dB)
	MAX MIN
TOTAL LOG LINEARITY (dB)	0.56 -0.40

Logging Accuracy vs Frequency	Error(dB)
	MAX MIN
TOTAL LOGGING ACCURACY (dB)	0.80 -1.02

Linearity Error VS Input Power



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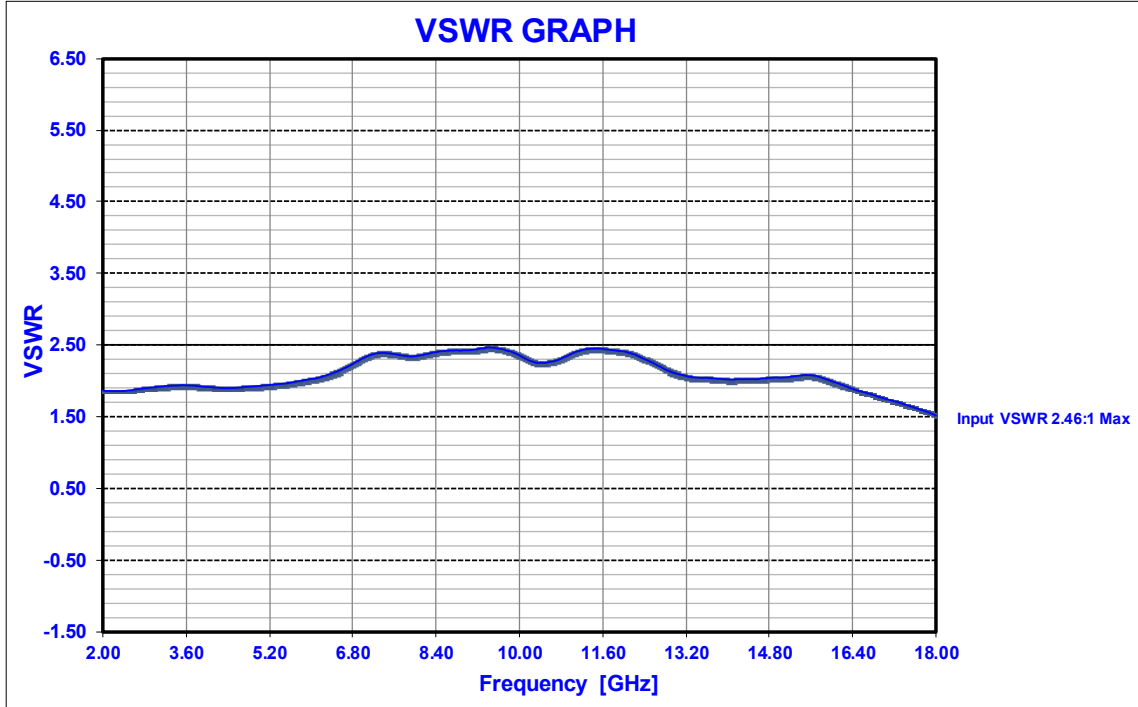
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**VSWR**

Model Number: DLVA-218-45-100MV-CW  
Serial Number: PL37091

Temperature: +25C



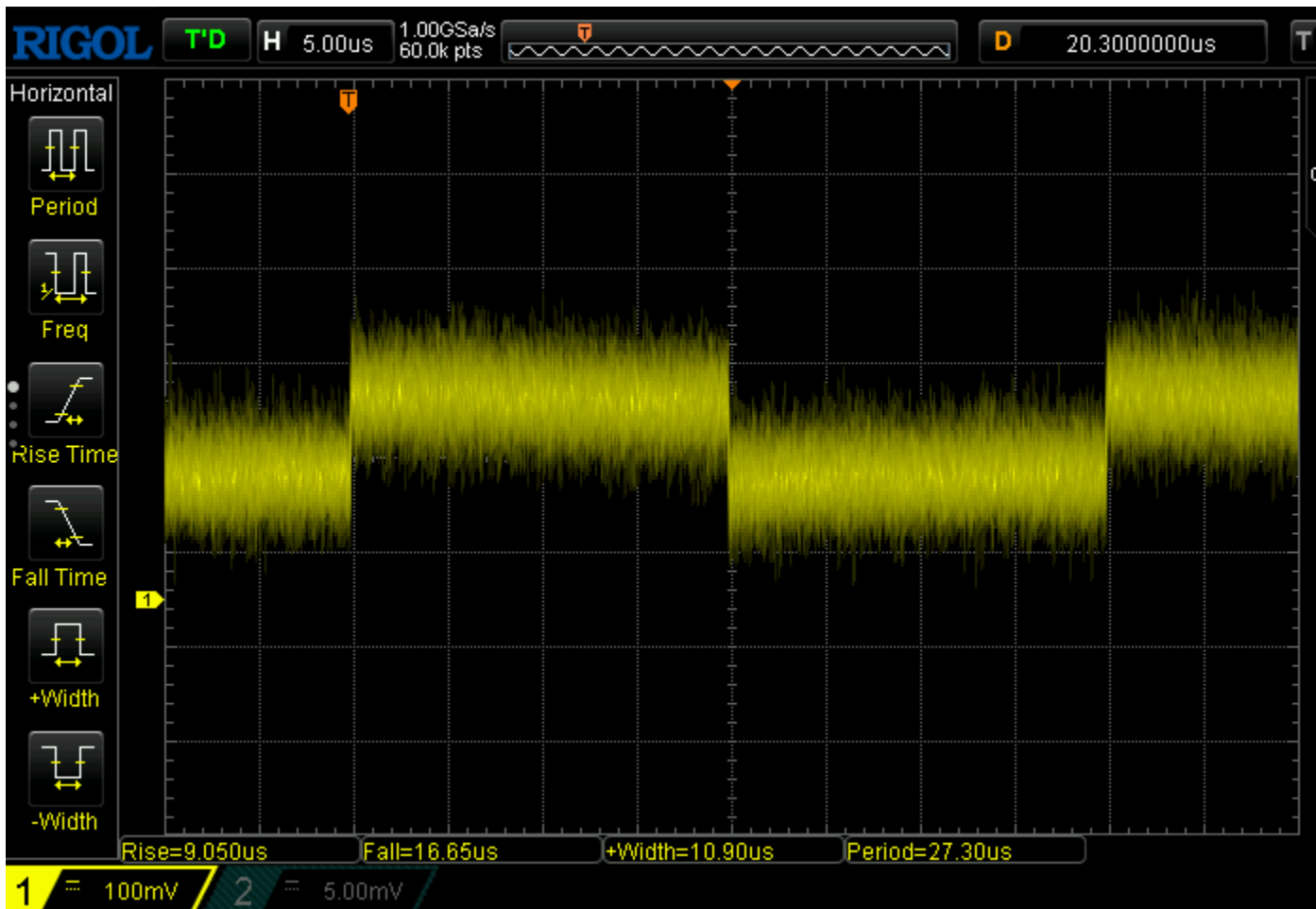
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**TSS -46 dBm @ 25°C**



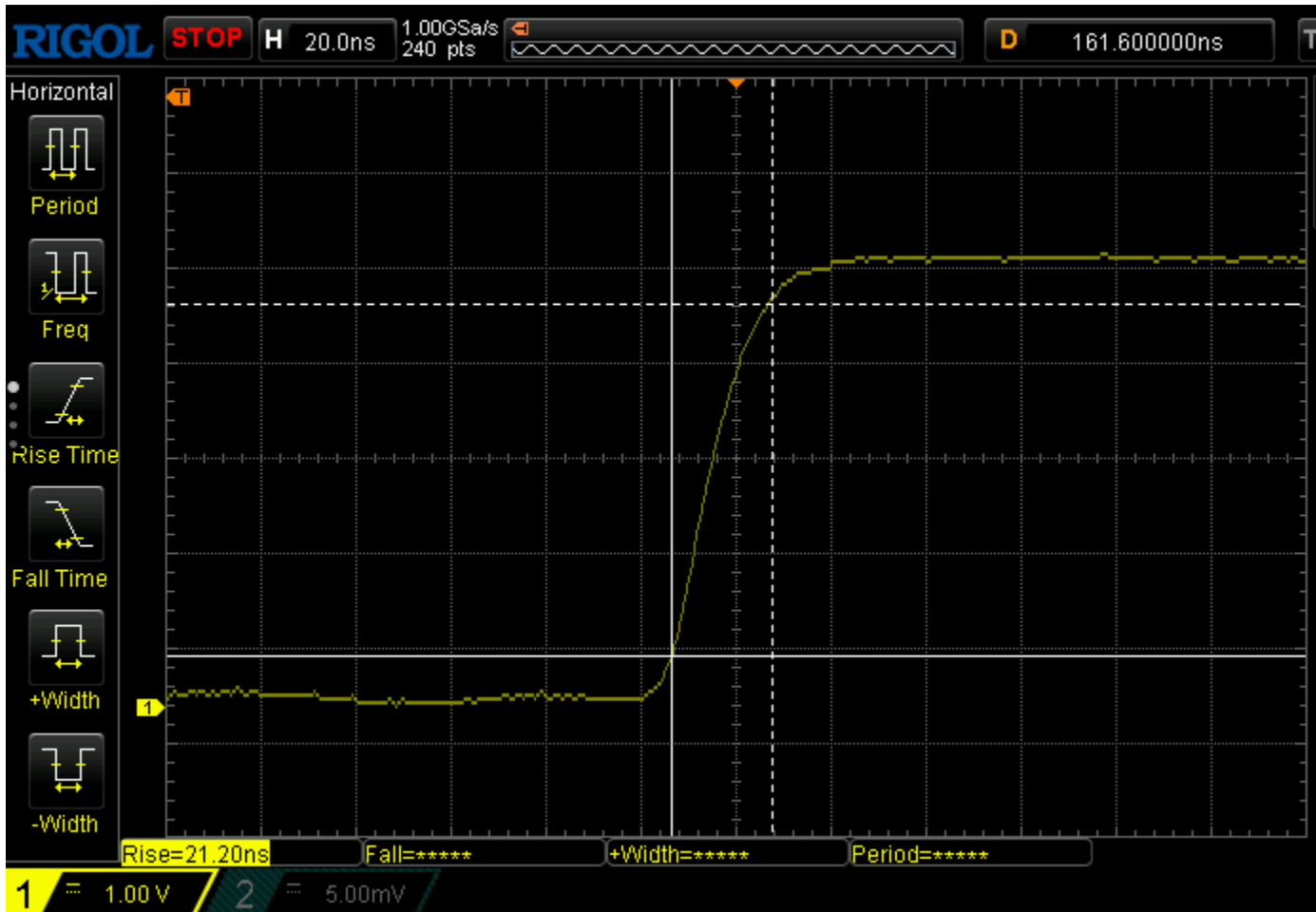
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## Rise Time



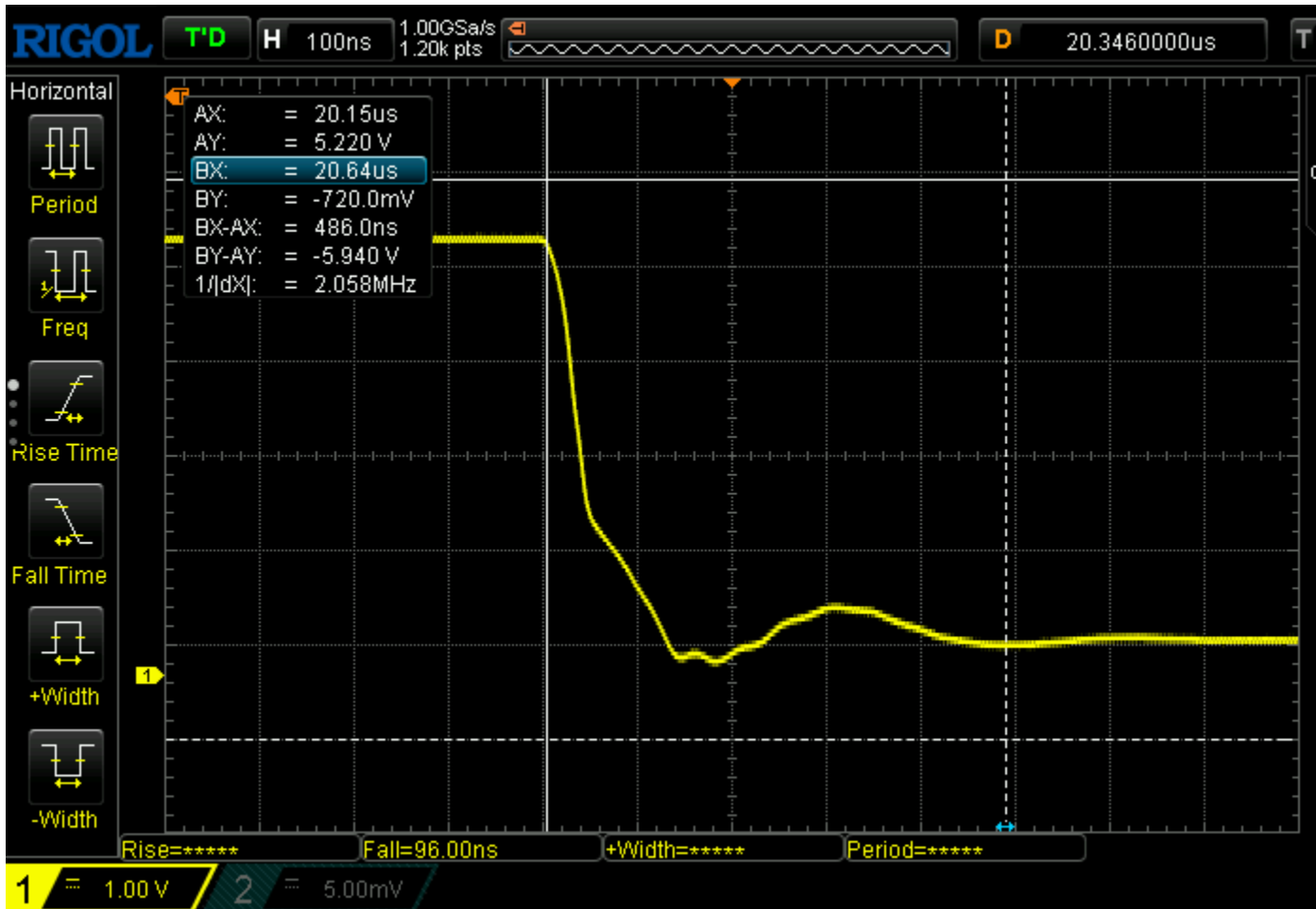
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## Recovery Time



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