



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

PL29422/2034

Customer: _____	Tested By: <u>Simon K.</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>DLVA-218-45-100MV-CW</u>	Date: <u>08/21/20</u>
Serial No: <u>PL29422/2034</u>	Drawing No: <u>27633805</u> Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	2 GHz to 18 GHz	2 GHz to 18 GHz	PMI QA3
2	Frequency Flatness	±2.0 dB TYP.	±1.0 dB	
3	Signal Capability	Pulse (100 ns – 300 µs)	Pass	
4	TSS from -20°C to +85°C	-45 dBm TYP.	-47 dBm Typ	
5	Log Dynamic Range	-40 dBm to +5 dBm	-40 dBm to +5 dBm	
6	Log Slope	100 mV/dB Nominal	94.4 mV/dB	
7	Log Linearity	±1.5 dB Max	+1.12 dB -1.00 dB	
8	DC Offset	±150 mV TYP.	73 mV	
9	Output Rise Time	25 ns Max	23 ns	
10	Settling Time	55ns Max, 90% Output to ±0.5dB of Final Value	Pass	
11	Recovery Time	500 ns Max	171 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	PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 8-26-2020

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: Simon K.
TEST DATE: 08/13/2020
SERIAL NO: PL29422
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway Suit 1
El Dorado Hills, CA 95762
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DC Offset= 0.073 V

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
2 GHz	4698	94.4

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
9.25 GHz	4540	94.4

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
18 GHz	4673	95.6

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

	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	937	1430	1836	2277	2788	3355	3697	4197	4752	5160
9.25 GHz	758	1342	1694	2166	2590	3208	3577	4024	4591	5050
18 GHz	865	1400	1780	2239	2665	3293	3674	4183	4740	5146
Flatness +/- dB	0.90	0.50	0.80	0.60	1.00	0.80	0.60	0.90	0.90	0.60
Max Video Output Volts	0.937	1.430	1.836	2.277	2.788	3.355	3.697	4.197	4.752	5.160
Min Video Output Volts	0.758	1.342	1.694	2.166	2.590	3.208	3.577	4.024	4.591	5.050

RF Input Power (dBm)

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.77 -0.65
LOGGING ACCURACY (dB)	1.39 0.00

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	1.12 -0.66
LOGGING ACCURACY (dB)	0.15 -1.68

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.76 -1.00
LOGGING ACCURACY (dB)	1.00 -0.89

Logging Linearity vs Frequency	Error(dB)
TOTAL LOG LINEARITY (dB)	MAX MIN
	1.12 -1.00

Logging Accuracy vs Frequency	Error(dB)
TOTAL LOGGING ACCURACY (dB)	MAX MIN
	1.39 -1.68



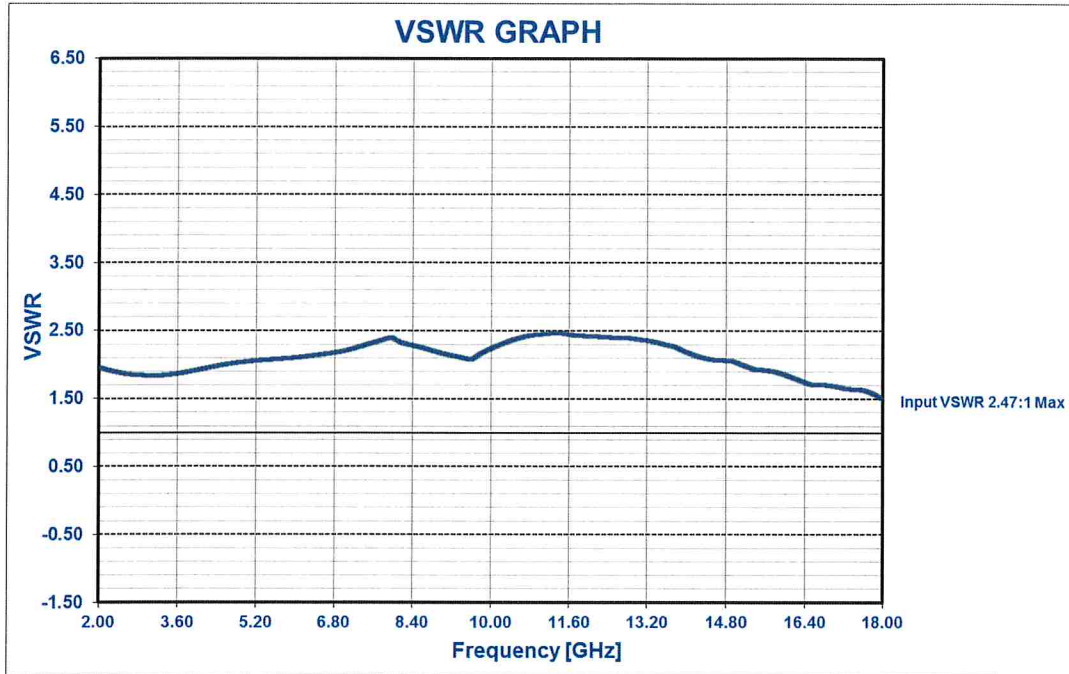
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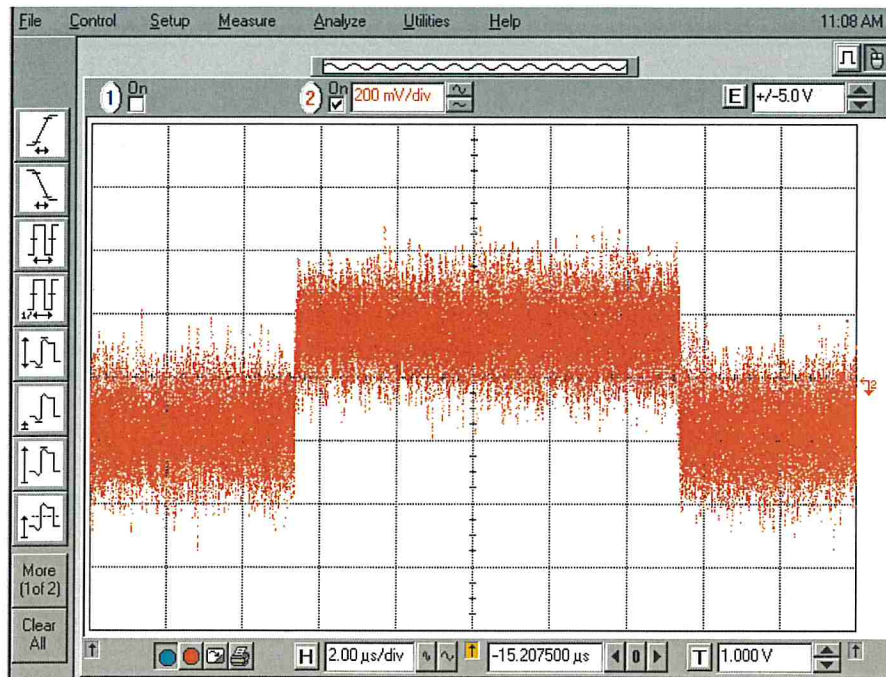
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VSWR



TSS -48 dBm @ -20°C



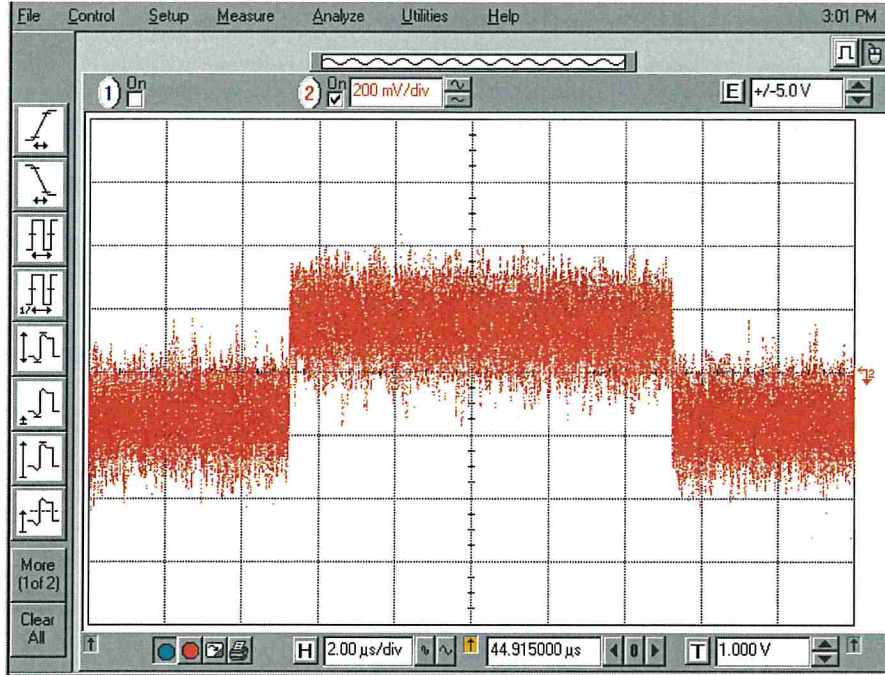
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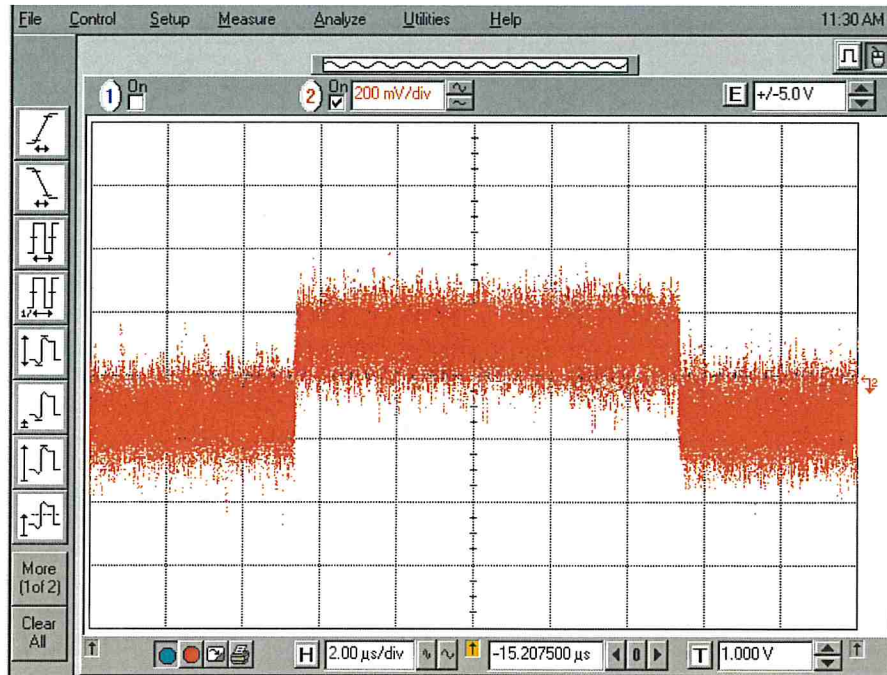
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TSS -47 dBm @ 25°C



TSS -46 dBm @ 85°C



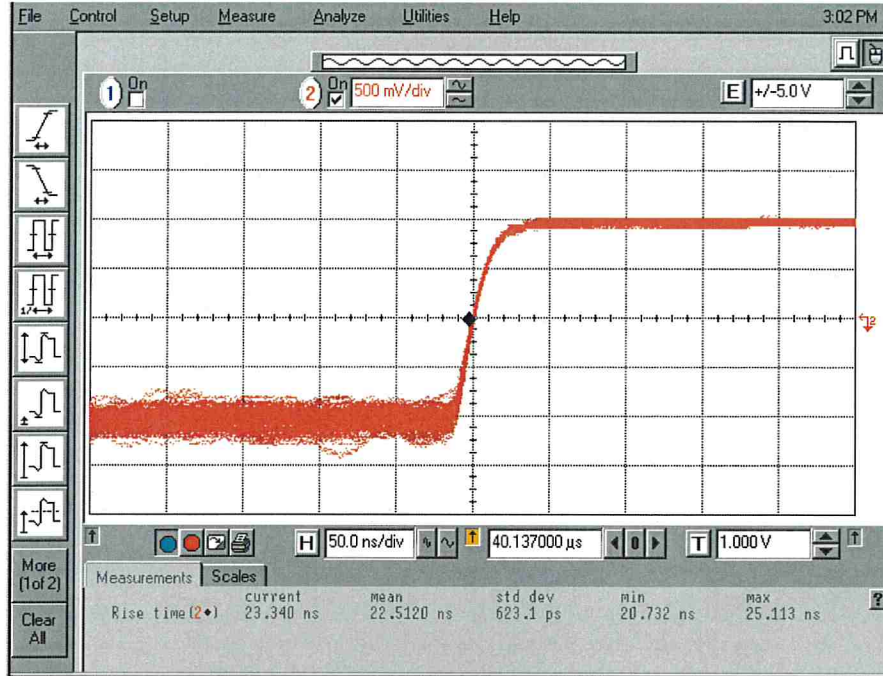
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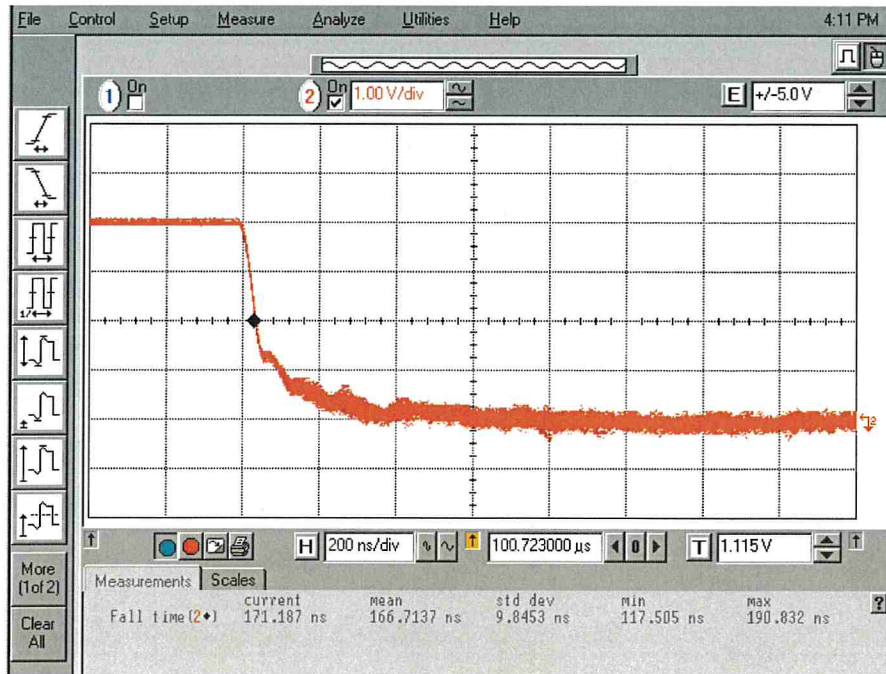
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Rise Time



Recovery Time



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