



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

PL29425/2034

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>PL29425/2034</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.	±0.5 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	95.6 mV/dB	
7	Log Linearity	±1.5 dB Max	+0.91 dB -0.99 dB	
8	DC Offset	±150 mV TYP.	-13 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	166 ns	
12	Input VSWR	2.5 : 1 TYP.	2.37 : 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: *A 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: PL29425
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway Suit 1
El Dorado Hills, CA 95762
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EMAIL: SALES@PMI-RF.COM

DC Offset= -0.013 V

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
2 GHz	4642	95.6

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
9.25 GHz	4563	95.7

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
18 GHz	4611	97.2

Flatness +/- dB	0.50
Max Video Output Volts	0.827
Min Video Output Volts	0.734

	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	827	1324	1678	2160	2790	3252	3604	4147	4686	5074
9.25 GHz	-2	78	-77	-77	17	73	-71	-30	53	-17
18 GHz	29	88	-73	-80	-33	44	-73	-1	75	-12
Flatness +/- dB	0.50	0.20	0.30	0.30	0.80	0.30	0.40	0.50	0.40	0.30
Max Video Output Volts	0.827	1.324	1.678	2.160	2.790	3.252	3.604	4.147	4.686	5.085
Min Video Output Volts	0.734	1.292	1.616	2.094	2.633	3.196	3.535	4.055	4.616	5.024

RF Input Power (dBm)

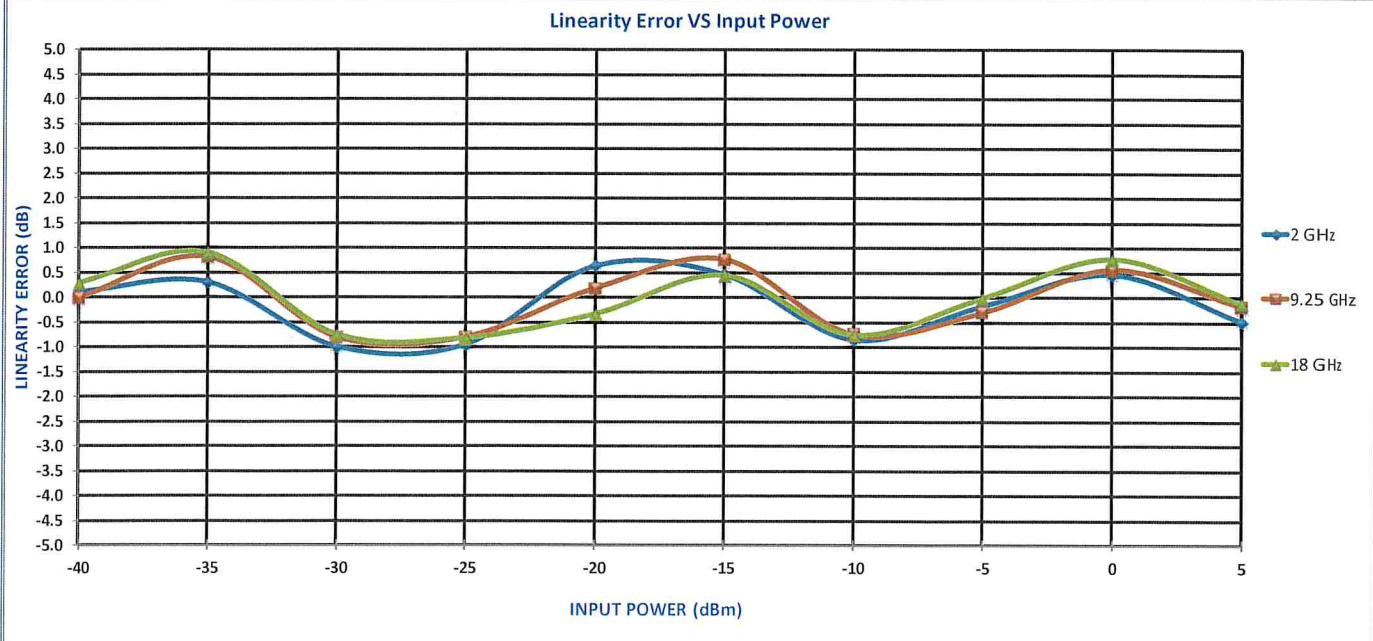
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.63 -0.99
LOGGING ACCURACY (dB)	1.00 -0.56

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.81 -0.81
LOGGING ACCURACY (dB)	0.42 -1.25

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.91 -0.82
LOGGING ACCURACY (dB)	0.71 -1.17

Logging Linearity vs Frequency	Error(dB)
	MAX MIN
TOTAL LOG LINEARITY (dB)	0.91 -0.99

Logging Accuracy vs Frequency	Error(dB)
	MAX MIN
TOTAL LOGGING ACCURACY (dB)	1.00 -1.25



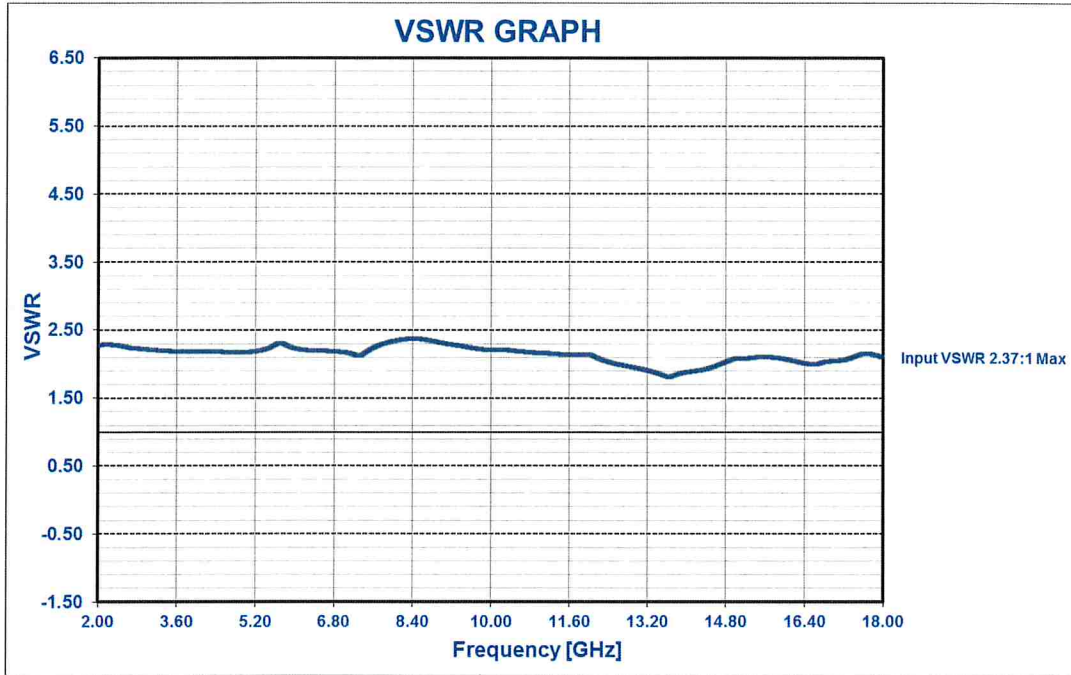
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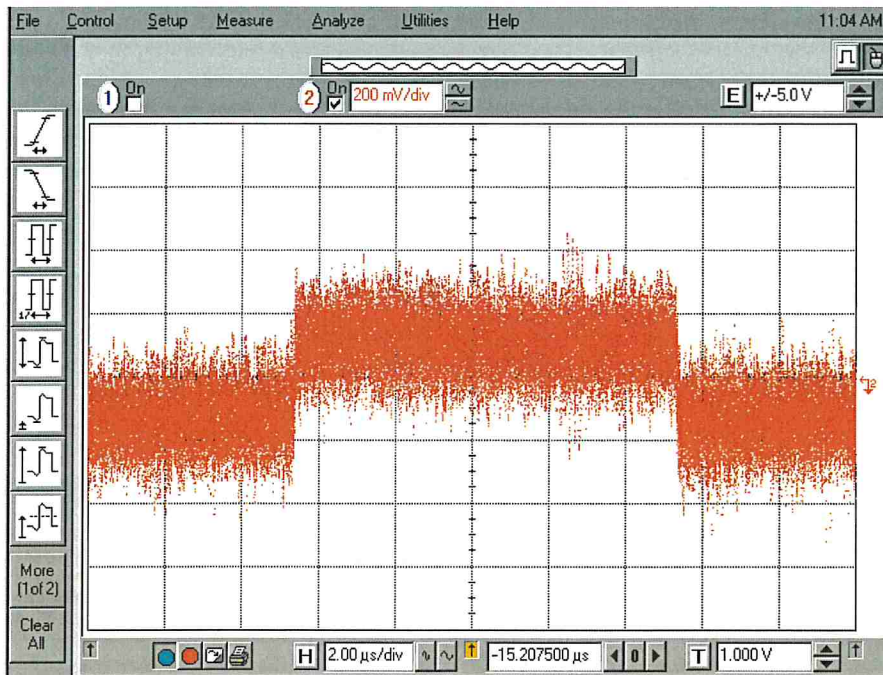
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VSWR



TSS -48 dBm @ -20°C



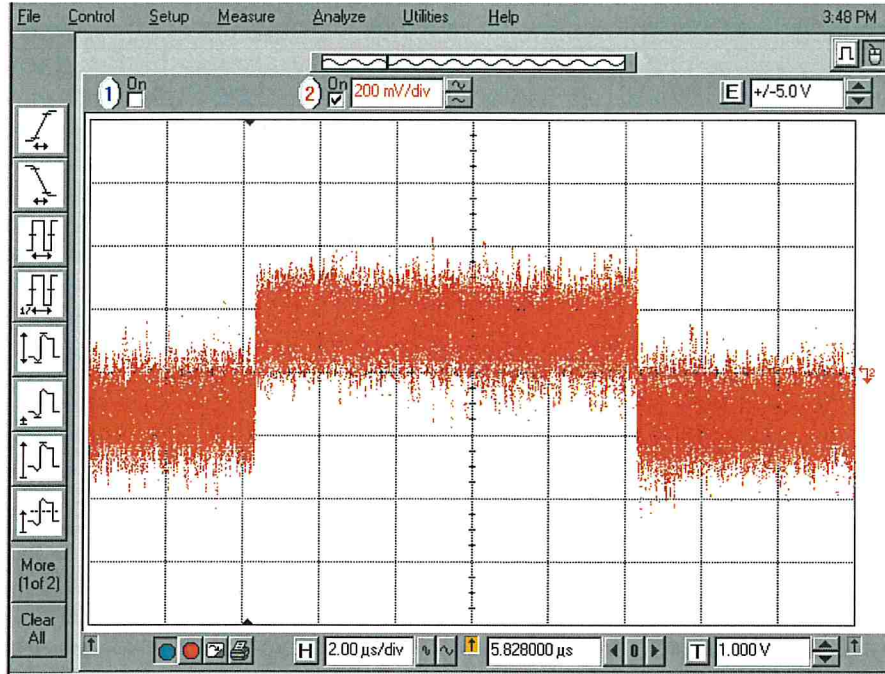
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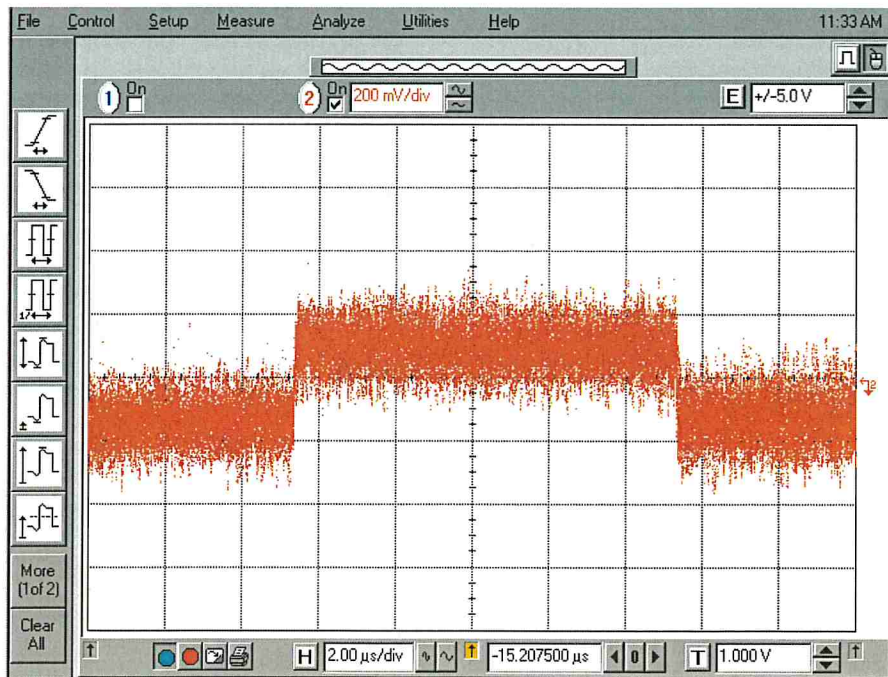
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TSS -47 dBm @ 25°C



TSS -46 dBm @ 85°C



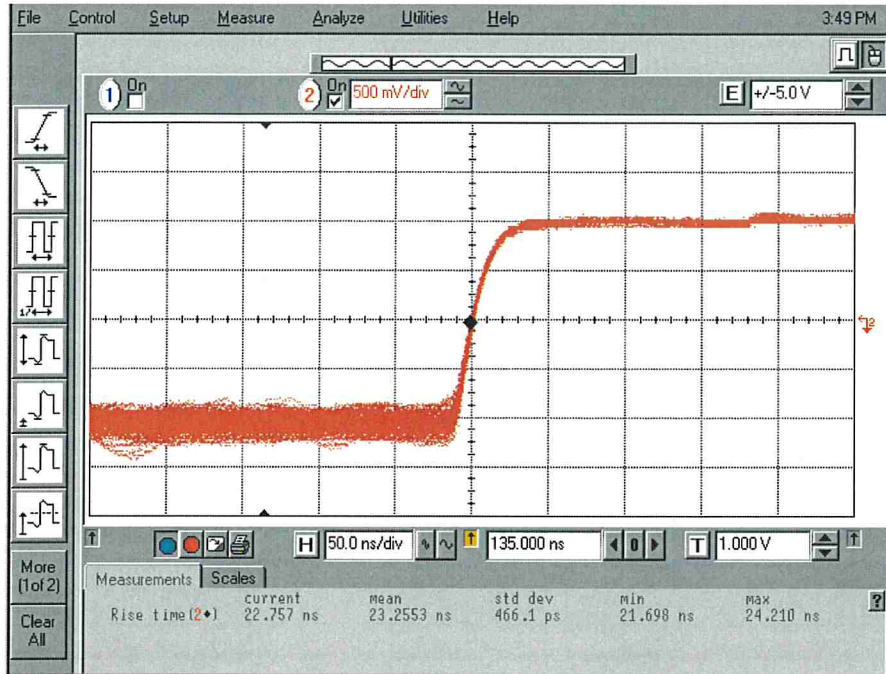
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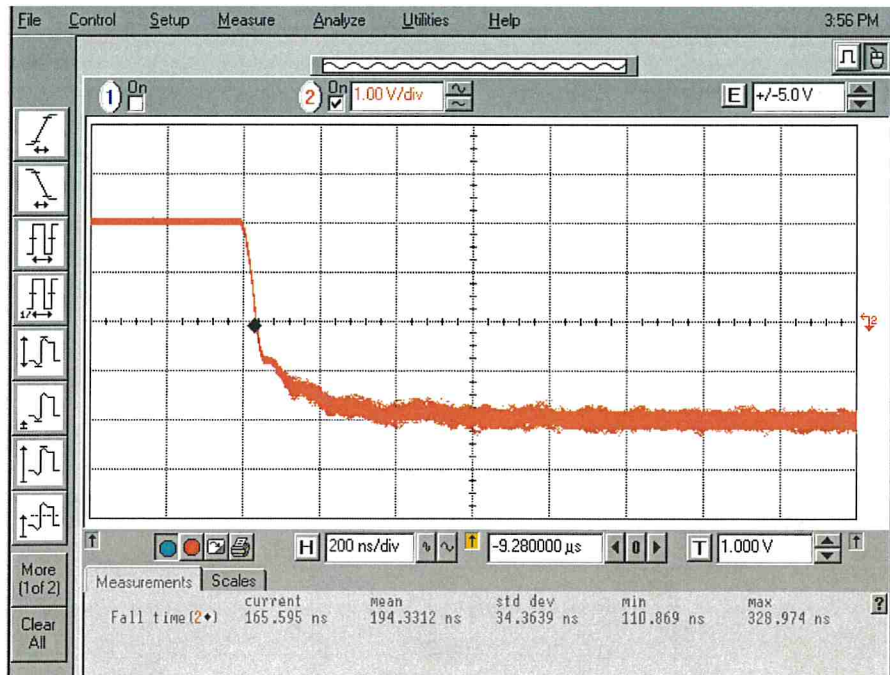
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Rise Time



Recovery Time



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