



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

**PL29426/2034**

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>PL29426/2034</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	96.3 mV/dB	
7	Log Linearity	±1.5 dB Max	+0.74 dB -0.81 dB	
8	DC Offset	±150 mV TYP.	-13 mV	
9	Output Rise Time	25 ns Max	24 ns	
10	Settling Time	55ns Max, 90% Output to ±0.5dB of Final Value	Pass	
11	Recovery Time	500 ns Max	175 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](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: Simon K.  
TEST DATE: 08/13/2020  
SERIAL NO: PL29426  
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES  
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El Dorado Hills, CA 95762  
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DC Offset= -0.013 V

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
2 GHz	4742	96.3

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
9.25 GHz	4802	97.2

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)
18 GHz	4753	97.2

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

	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	850	1391	1801	2279	2863	3368	3702	4217	4771	5176
9.25 GHz	890	1410	1827	2306	2883	3389	3752	4297	4837	5224
18 GHz	850	1390	1790	2274	2787	3346	3714	4249	4800	5196
Flatness +/- dB	0.20	0.10	0.20	0.20	0.50	0.20	0.30	0.40	0.30	0.20
Max Video Output Volts	0.890	1.410	1.827	2.306	2.883	3.389	3.752	4.297	4.837	5.224
Min Video Output Volts	0.850	1.390	1.790	2.274	2.787	3.346	3.702	4.217	4.771	5.176

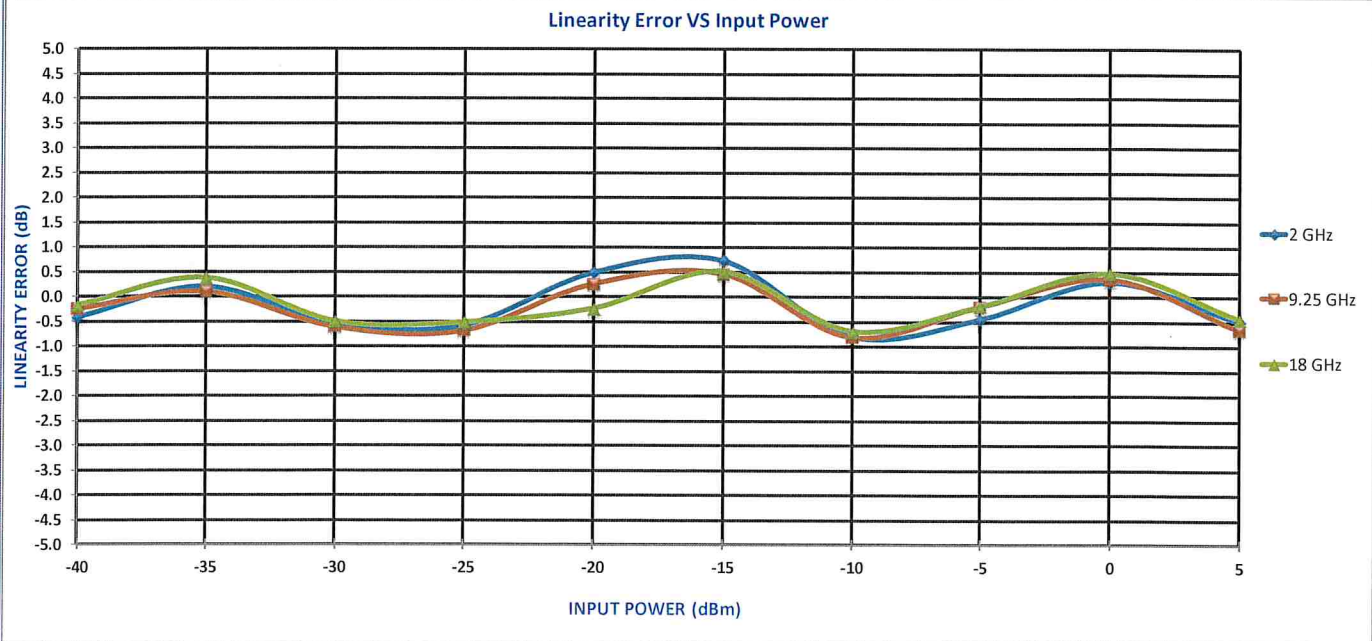
Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.74 -0.79
LOGGING ACCURACY (dB)	0.85 -0.70

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.46 -0.81
LOGGING ACCURACY (dB)	1.07 -0.19

Measured Value (mV)	Error(dB)
Error (mV)	MAX MIN
LINEARITY ERROR (dB)	0.52 -0.69
LOGGING ACCURACY (dB)	0.63 -0.58

Logging Linearity vs Frequency	Error(dB)
TOTAL LOG LINEARITY (dB)	0.74 -0.81

Logging Accuracy vs Frequency	Error(dB)
TOTAL LOGGING ACCURACY (dB)	1.07 -0.70



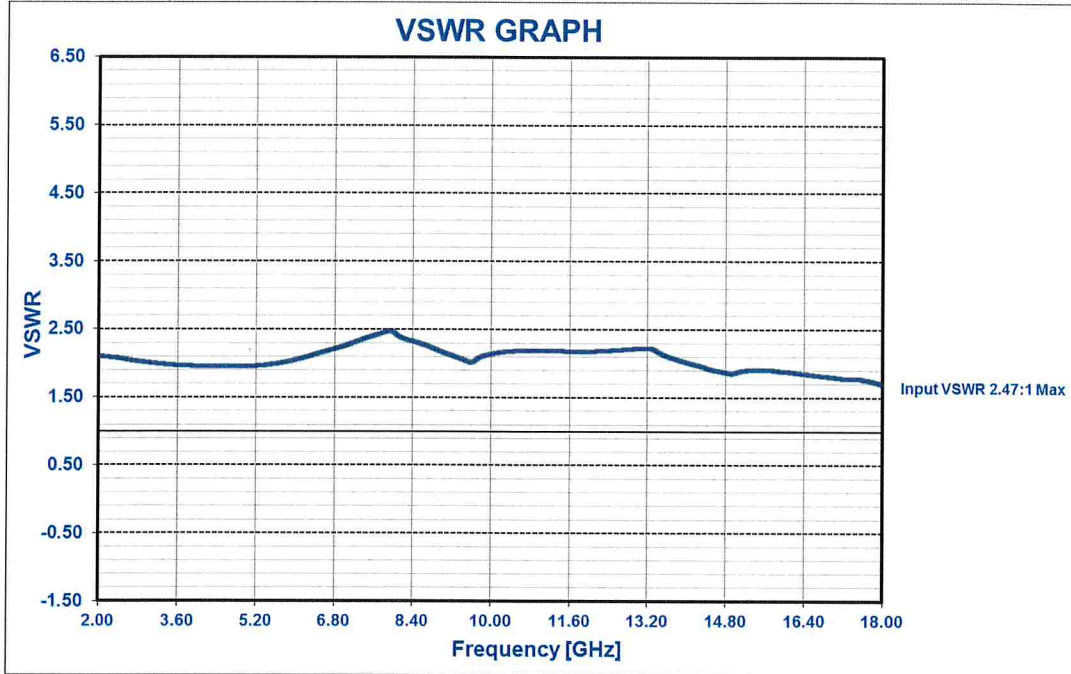
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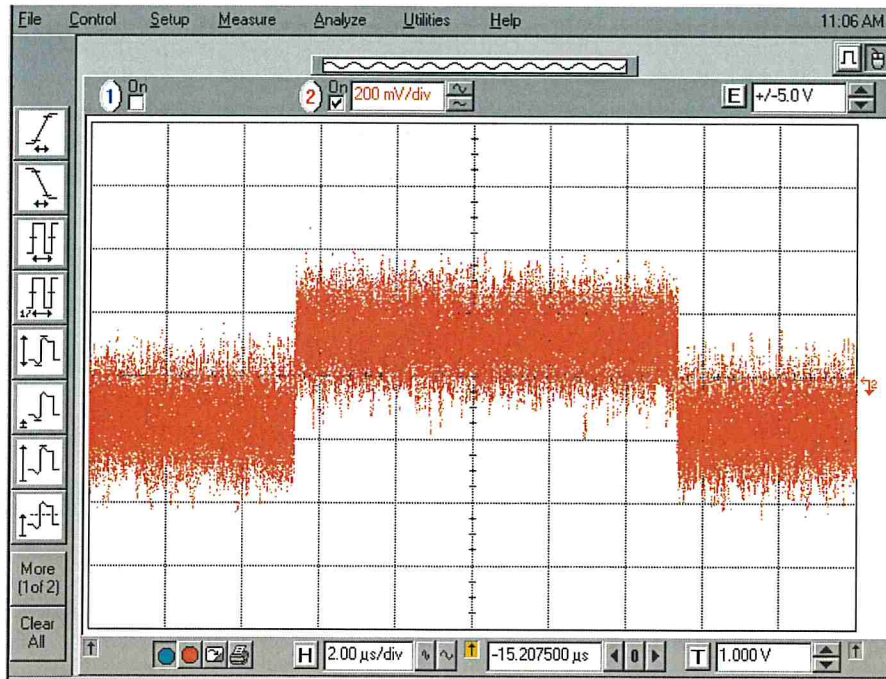
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## VSWR



## TSS -48 dBm @ -20°C



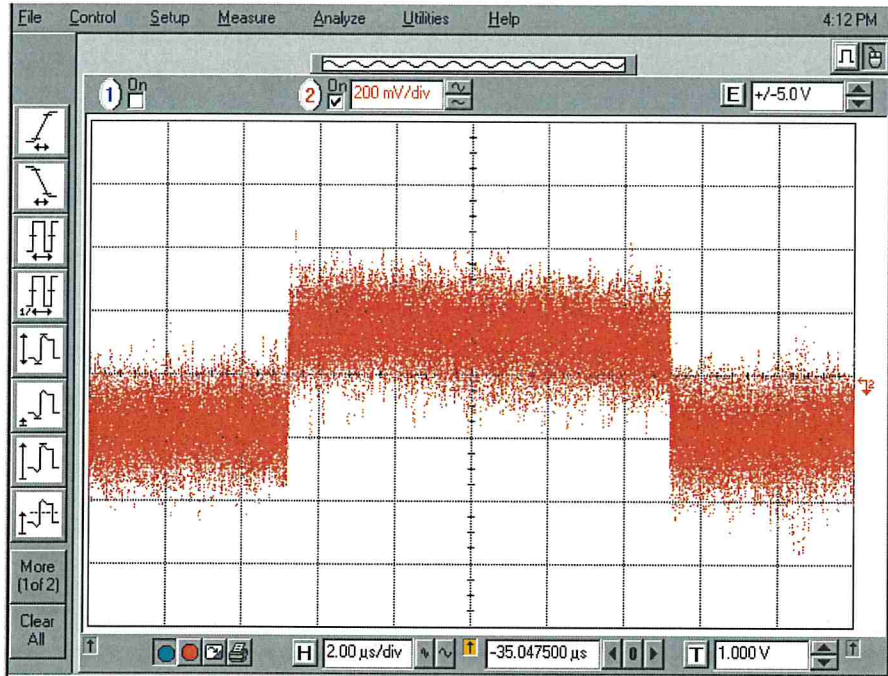
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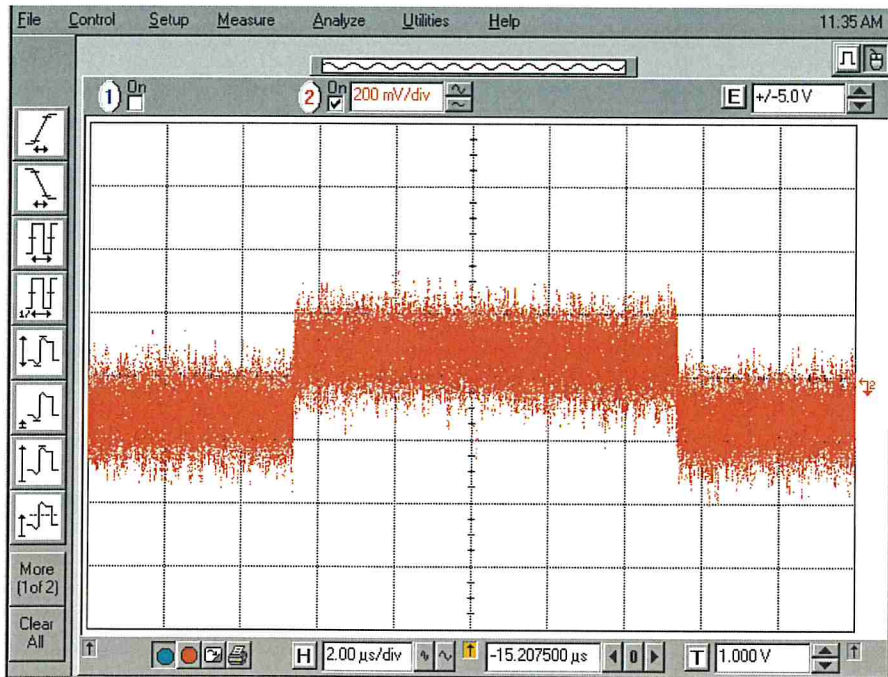
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**TSS -47 dBm @ 25°C**



**TSS -46 dBm @ 85°C**



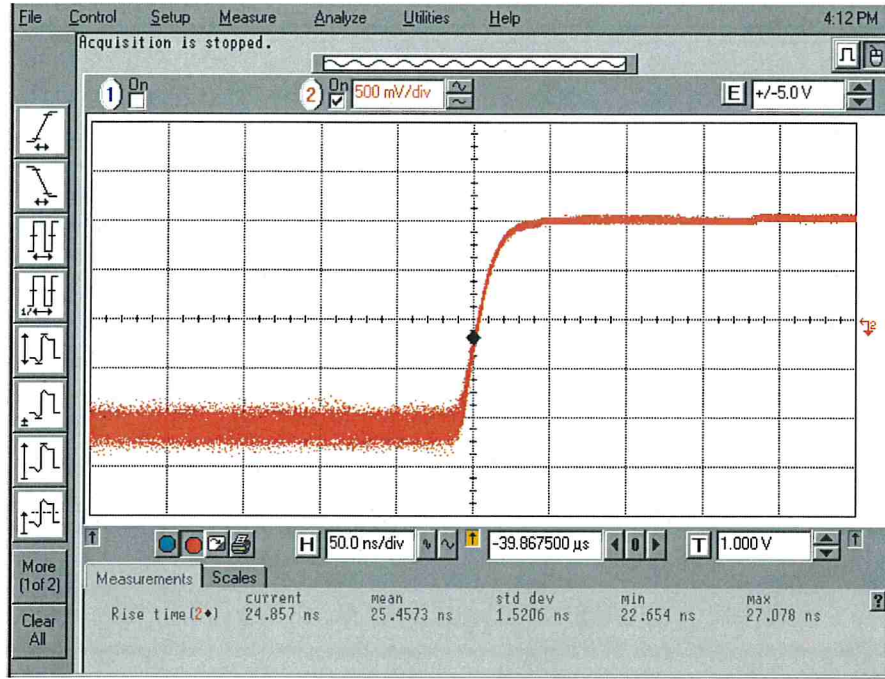
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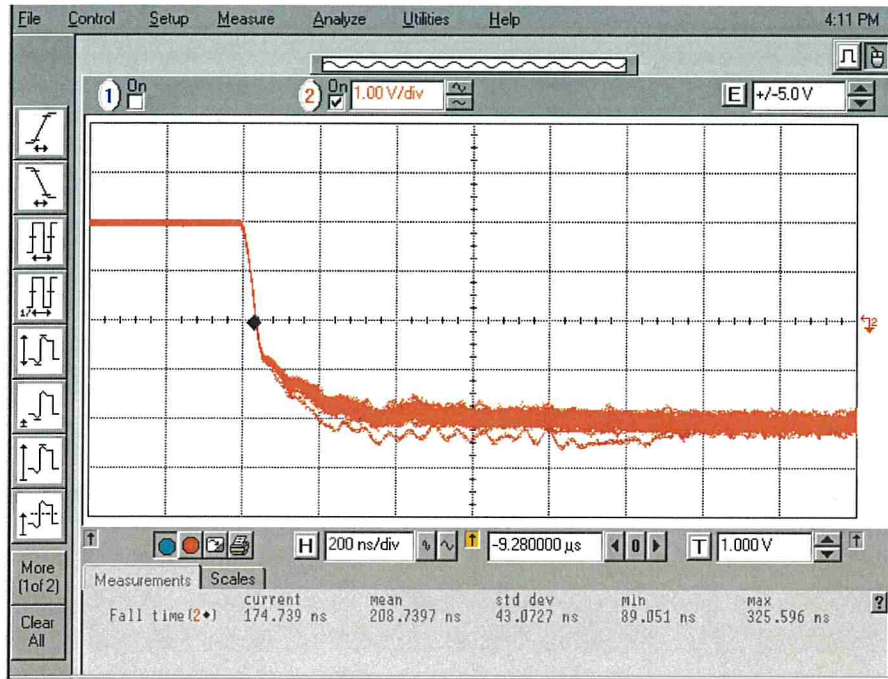
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## Rise Time



## Recovery Time



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