



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

Customer: _____	Tested By: <u>E.Benson</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>SDLVA-218-65-16MV-12DBM-OPTJE</u>	Date: <u>10/30/2019</u>
Serial No: <u>PL26546/1944</u>	Drawing No: <u>27636260</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	<b>PMI QA2</b>
2	TSS	-64 dBm max	-67 dBm	
3	Input Power Handling	+20 dBm	+20 dBm	
4	Video Log Range	-55 dBm to +10 dBm	Pass	
5	Video Log Linearity	+2.2 dB	+1.84 dB -1.70 dB	
6	Video Log Slope	16.0 ±2.0 mV/dB nom	-17.1 ±0.97 mV/dB	
7	Video Freq Flatness	±4 dB max	3.0 dB	
8	Pulse Width Range	25 nsec to CW	Pass	
9	Video Rise Time	10 nsec max	3.965 nsec	<b>PMI QA2</b>

4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762 Phone: (916) 542-1401 Fax: (916) 265-2597 Email: <a href="mailto:sales@pmi-rf.com">sales@pmi-rf.com</a>
---



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

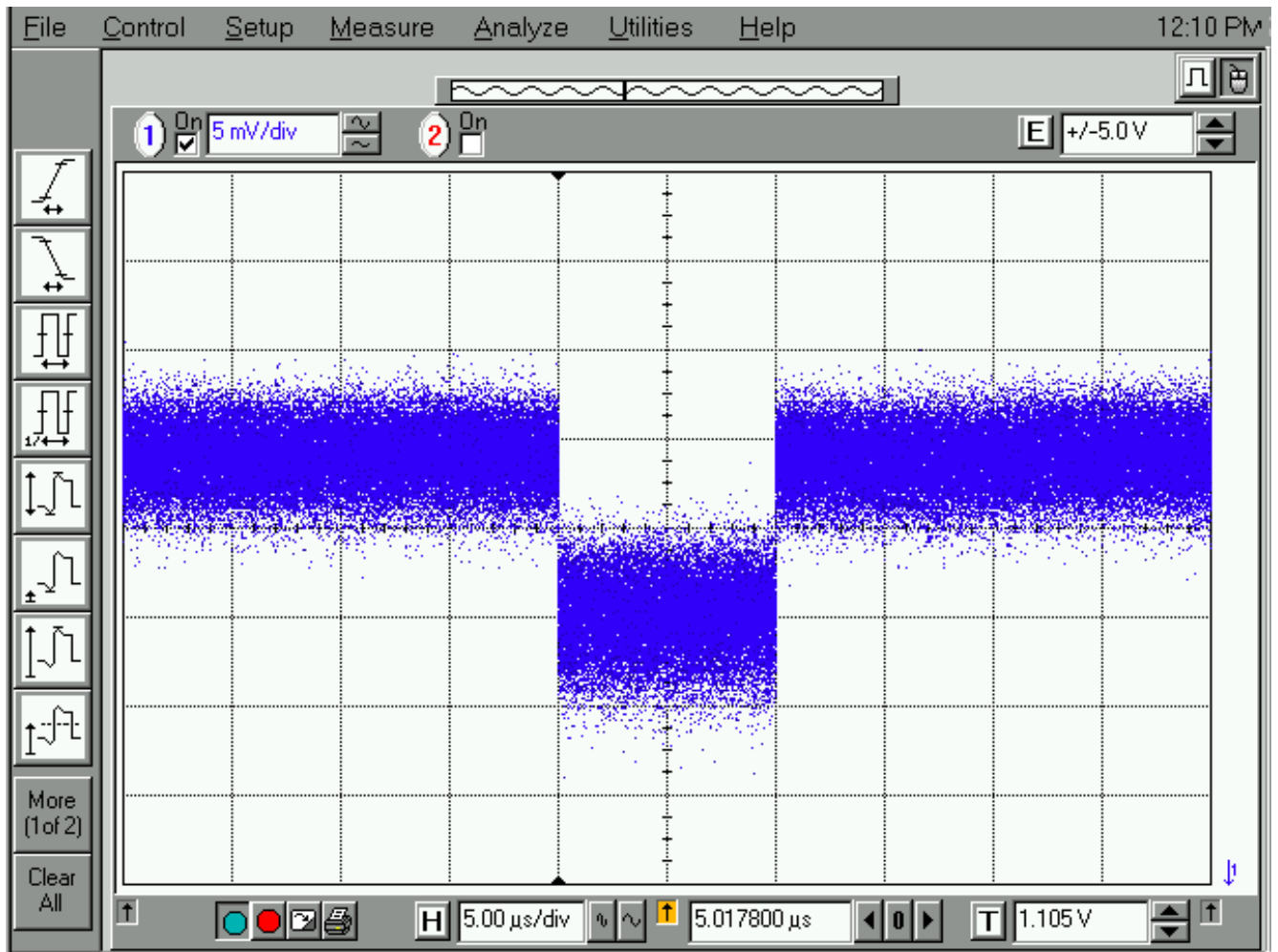
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
10	Video Fall Time	15 nsec max	8.449 nsec	PMI QA 2
11	Recovery Time	30 nsec max	17.9 nsec	
12	Delay	<2 nsec	1.739 nsec	
13	Video Output Impedance	50Ω	Pass	
14	RF In/Out Impedance	50Ω	Pass	
15	Input VSWR (50Ω)	2.0:1 max	1.98:1	
16	DC Supply	+12 V @ 850 mA -12 V @ 250 mA	460mA 30mA	PMI QA 2

QA/QC Approval: *J. Leland* Date: 11-4-19



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VIDEO TSS -66 dBm**





**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VIDEO LOG LINEARITY**

MODEL: SDLVA-218-65-16MV-12DBM-OPTJE  
SERIAL NO: PL26546  
DATE: 10/30/19  
TESTED BY: E.Benson  
Test Temp: +25C

GRAPH #1



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

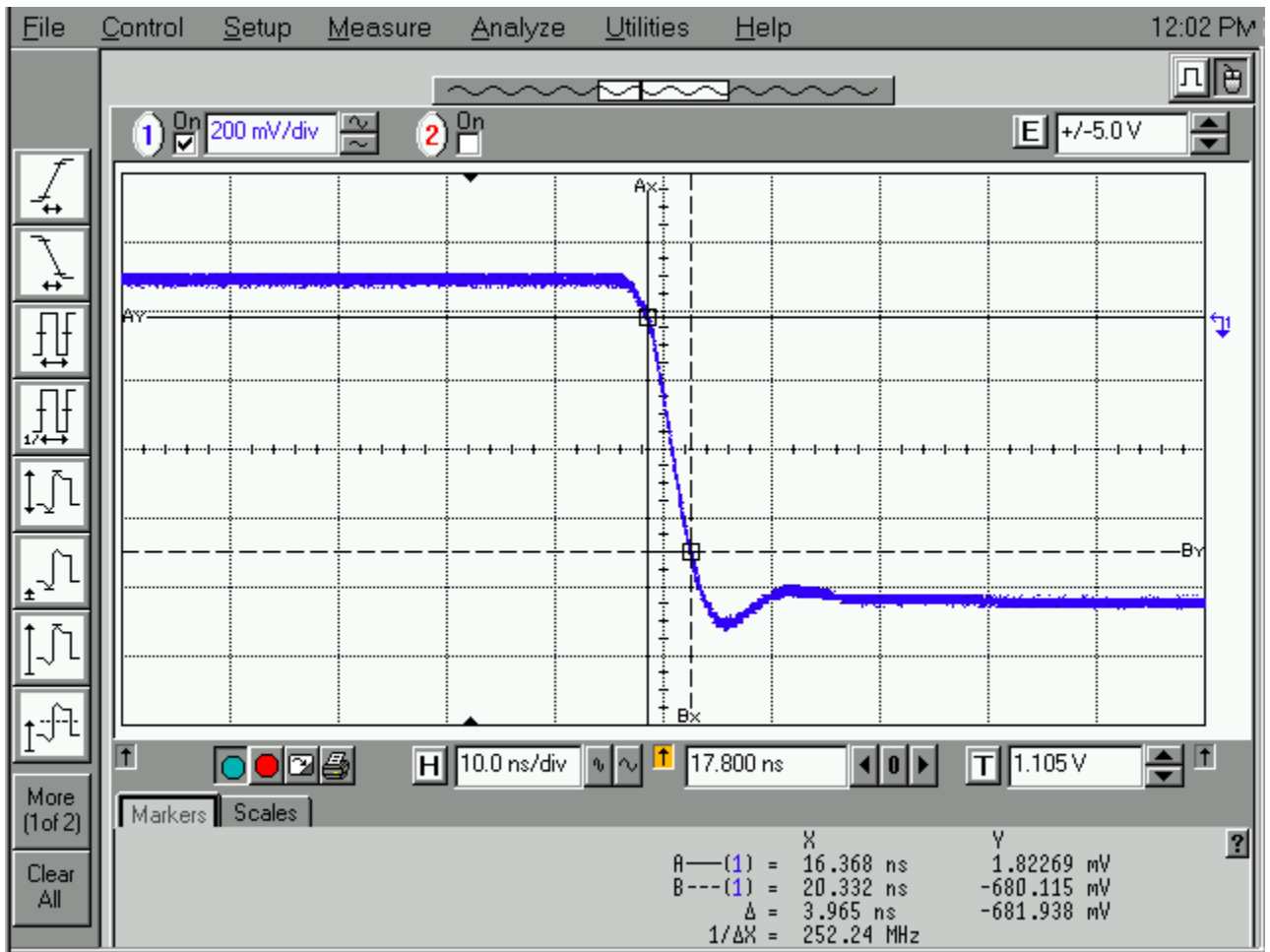
		Video Output Voltage With No RF													-0.086		RF Input Power (dBm)		
		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10				
2 GHz	INTERCEPT (mV)	-176	-253	-326	-403	-480	-552	-626	-698	-778	-867	-948	-1034	-1124	-1221	Measured Value (mV)		Error(dB)	
	SLOPE (mV/dB)	-13	-11	-5	-3	0	7	12	19	18	9	7	0	-11	-29	Error (mV)		MAX	MIN
		0.84	0.70	0.31	0.17	0.03	-0.43	-0.76	-1.21	-1.16	-0.54	-0.43	0.00	0.68	1.81	LINEARITY ERROR (dB)		1.81	-1.21
6 GHz	INTERCEPT (mV)	-159	-235	-316	-401	-484	-565	-646	-727	-814	-905	-997	-1095	-1197	-1282	Measured Value (mV)		Error(dB)	
	SLOPE (mV/dB)	-19	-8	-3	-2	2	7	12	18	17	13	7	-5	-20	-19	Error (mV)		MAX	MIN
		1.09	0.48	0.17	0.10	-0.10	-0.41	-0.72	-1.03	-1.00	-0.73	-0.40	0.27	1.18	1.10	LINEARITY ERROR (dB)		1.18	-1.03
10 GHz	INTERCEPT (mV)	-144	-211	-290	-374	-463	-547	-632	-714	-800	-892	-988	-1087	-1189	-1275	Measured Value (mV)		Error(dB)	
	SLOPE (mV/dB)	-28	-7	1	5	4	8	10	16	18	13	5	-6	-20	-19	Error (mV)		MAX	MIN
		1.60	0.42	-0.08	-0.29	-0.22	-0.43	-0.59	-0.91	-1.01	-0.77	-0.30	0.35	1.16	1.06	LINEARITY ERROR (dB)		1.60	-1.01
14 GHz	INTERCEPT (mV)	-160	-237	-320	-407	-490	-561	-640	-726	-817	-918	-1021	-1128	-1228	-1313	Measured Value (mV)		Error(dB)	
	SLOPE (mV/dB)	-26	-14	-8	-6	0	17	27	30	28	16	2	-16	-27	-23	Error (mV)		MAX	MIN
		1.47	0.80	0.46	0.36	0.02	-0.98	-1.54	-1.70	-1.59	-0.91	-0.11	0.90	1.53	1.31	LINEARITY ERROR (dB)		1.53	-1.70
18 GHz	INTERCEPT (mV)	-135	-204	-287	-372	-456	-527	-603	-687	-781	-878	-977	-1070	-1161	-1242	Measured Value (mV)		Error(dB)	
	SLOPE (mV/dB)	-24	-7	-4	-3	-1	14	24	26	18	7	-6	-13	-18	-13	Error (mV)		MAX	MIN
		1.42	0.42	0.25	0.19	0.07	-0.81	-1.39	-1.51	-1.05	-0.42	0.34	0.74	1.03	0.73	LINEARITY ERROR (dB)		1.42	-1.51
Flatness +/- dB		1.20	1.40	1.10	1.00	1.00	1.10	1.30	1.20	1.10	1.50	2.10	2.70	3.00	2.70				
Max Video Output Volts		-0.135	-0.204	-0.287	-0.372	-0.456	-0.527	-0.603	-0.687	-0.778	-0.867	-0.948	-1.034	-1.124	-1.221				
Min Video Output Volts		-0.176	-0.253	-0.326	-0.407	-0.490	-0.565	-0.646	-0.727	-0.817	-0.918	-1.021	-1.128	-1.228	-1.313				
Log Slope Average: mV/dB																-17.1			
Log Slope Variation: ± mV/dB																0.97			

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)



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VIDEO RISE TIME**

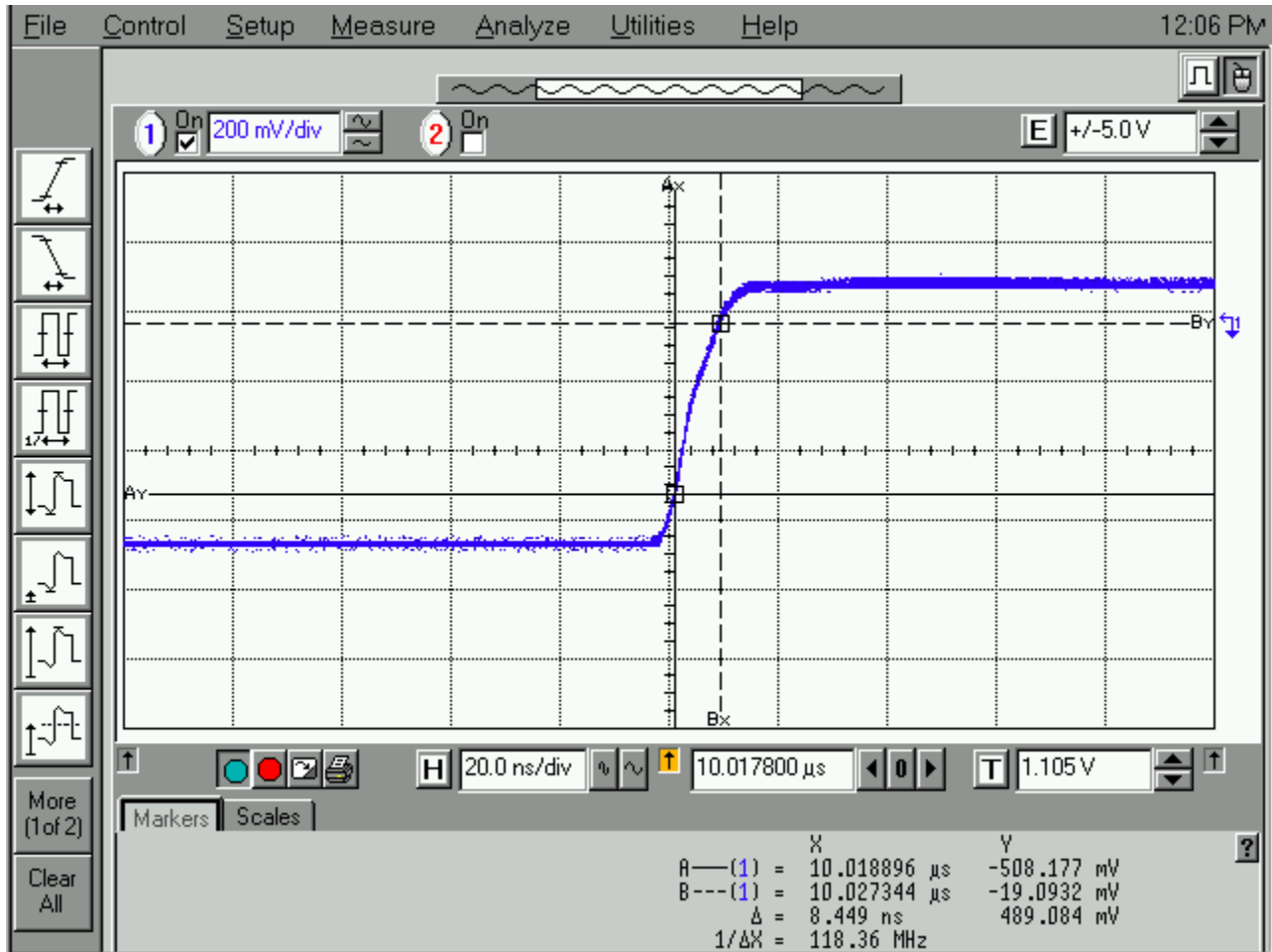


4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762  
Phone: (916) 542-1401 Fax: (916) 265-2597  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VIDEO FALL TIME**

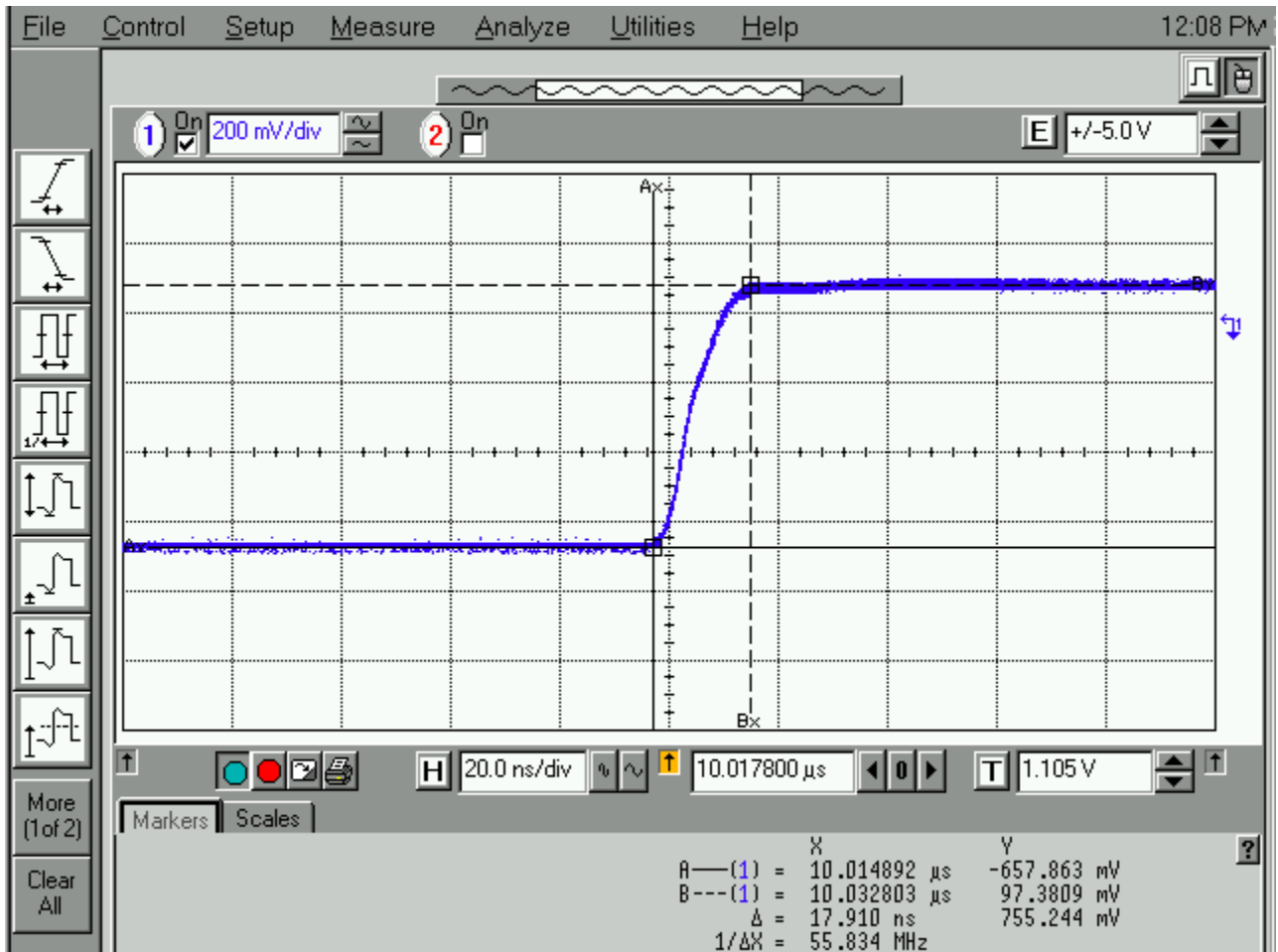


4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762  
Phone: (916) 542-1401 Fax: (916) 265-2597  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VIDEO RECOVERY TIME**

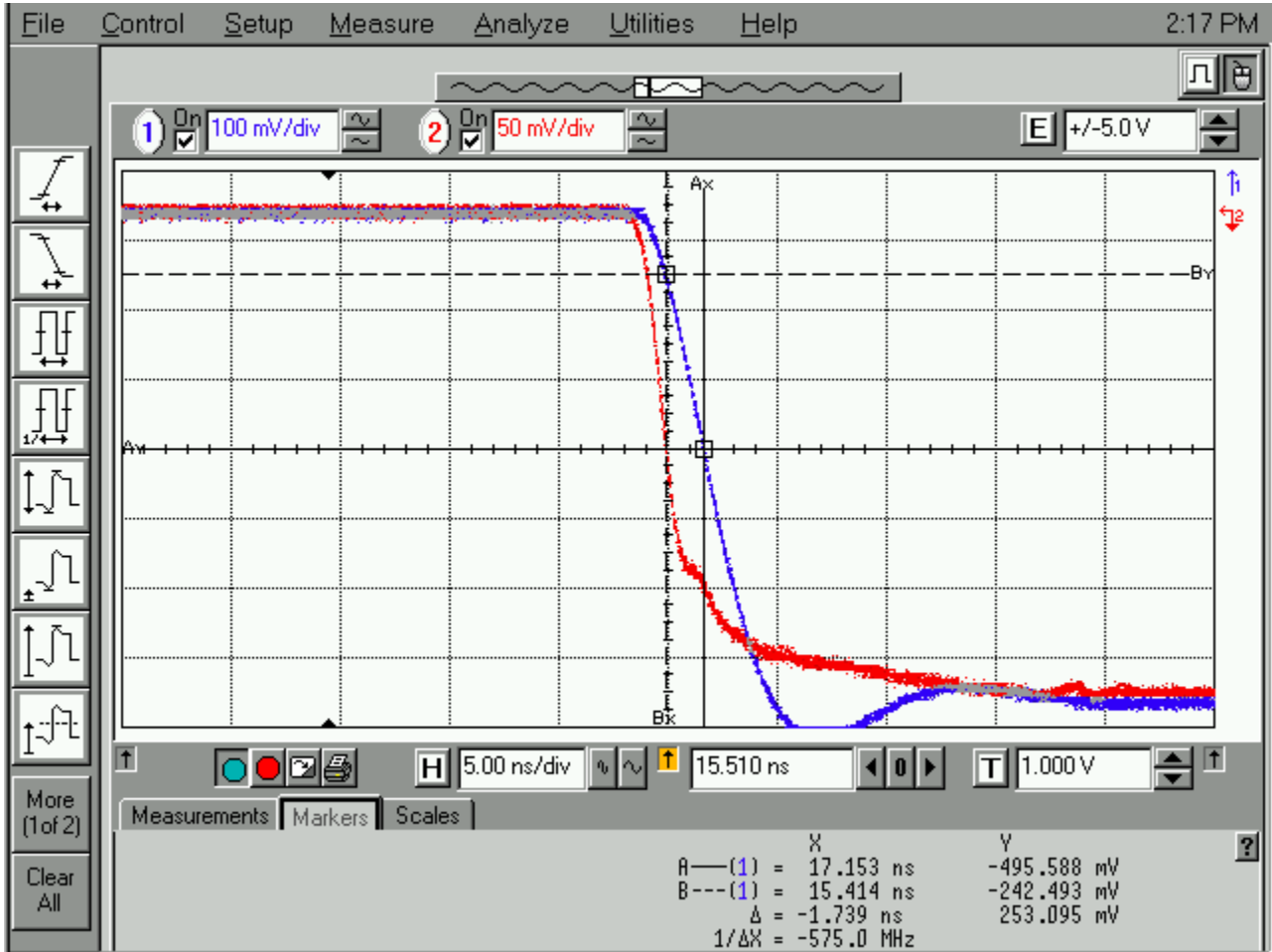


4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762  
Phone: (916) 542-1401 Fax: (916) 265-2597  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**DELAY TIME**



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)





**SUMMARY TEST DATA  
ON  
SDLVA-218-65-16MV-12DBM-OPTJE**

**VSWR**

