



**SUMMARY TEST DATA**  
**ON**  
**SDLVA-0R71R3-75-CD-3**

**PL22905/1825**

<b>CUSTOMER:</b> _____	<b>SALES ORDER:</b> <u>SO18-140-P-P</u>
<b>MODEL NO:</b> _____	<b>TESTED BY:</b> <u>Simon K.</u>
<b>OPTION NO:</b> _____	<b>TEMPERATURE:</b> <u>+25°C</u>
<b>SERIAL NO:</b> <u>PL22905/1825</u>	<b>DATE:</b> <u>06/19/2018</u>
<b>DRAWING NO:</b> <u>27617477</u>	<b>REVISION:</b> <u>A2</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	FREQUENCY RANGE:	700 MHz TO 1300 MHz	700 MHz TO 1300 MHz	PMI QA1
2	DYNAMIC RANGE:	75 dBm MINIMUM	75 dBm	
3	LOG LINEARITY (RF IN TO RF OUT):	± 0.8 dB Typ, ± 1.2 dB Max @ (-60 dBm TO 0 dBm)	0.52 dB	
		± 1.2 dB Typ, ± 1.5 dB Max @ (-65 dBm TO +5 dBm)	0.52 dB	
4	MINIMUM LOGGING RANGE:	-70 dBm	-71.5 dBm	
5	MAXIMUM LOGGING RANGE:	+5 dBm	+5.5 dBm	
6	VSWR (INPUT):	1.5:1 TYPICAL, 1.8:1 MAXIMUM	1.66:1	
7	TANGENTIAL SENSITIVITY:	-70 dBm TYPICAL	-73 dBm	
8	LIMITED IF OUTPUT:	+5 dBm TYPICAL	5.15 dBm	
9	MAXIMUM RF INPUT POWER:	+10 dBm CW	PASS	
10	OUTPUT COUPLING:	DC	PASS	
11	RISE TIME:	15 ns TYPICAL, 25 ns MAXIMUM	21.2 ns	PMI QA1

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA**  
**ON**  
**SDLVA-0R71R3-75-CD-3**

**PL22905/1825**

12	FALL TIME:	15 ns TYPICAL, 30 ns MAXIMUM	19.8 ns	PMI QA 1
13	SETTLING TIME:	40 ns MAXIMUM	23.2 ns	
14	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
15	LOG SLOPE:	40 mV/dB NOMINAL	39.7 mV/dB	
16	LOG SLOPE VARIATION WITH FREQUENCY:	±0.5 mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	± 0.6 mV/dB	
17	LOG SLOPE VARIATION WITH TEMPERATURE:	±1 mV/dB TYPICAL	± 1.0 mV/dB	
18	PROPAGATION DELAY:	7 ns TYPICAL, 10 ns MAXIMUM	7 ns	
19	VIDEO LOAD:	50 Ω ± 10%	PASS	
20	DC POWER SUPPLY :	+12V TO +15V @ 200mA -12V TO -15V @ 190mA	116 mA 124 mA	PMI QA 1

TESTED ON: HP 83620A Signal Generator, HP 8757D Scalar Network Analyzer, HP 3478A Digital Multimeter,  
HP 6236B Power Supply, HP EPM-442A Power Meter, Agilent 54820A Oscilloscope

QA/QC  
APPROVAL:

PMI  
QA 1

DATED: 6/21/18

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA  
ON  
SDLVA-0R71R3-75-CD-3**

**PL22905/1825**

**Log Transfer with Frequency**

LOG TRANSFER WITH FREQUENCY  
MODEL: SDLVA-0R71R3-75-CD-3  
TESTED BY: Simon K.  
TEST DATE: 06/19/18  
SERIAL NO: PL22905  
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES  
7311-F GROVE ROAD, FREDERICK, MD 21704  
USA  
TEL: 301-662-5019 FAX: 301-662-1731  
URL: WWW.PMI-RF.COM

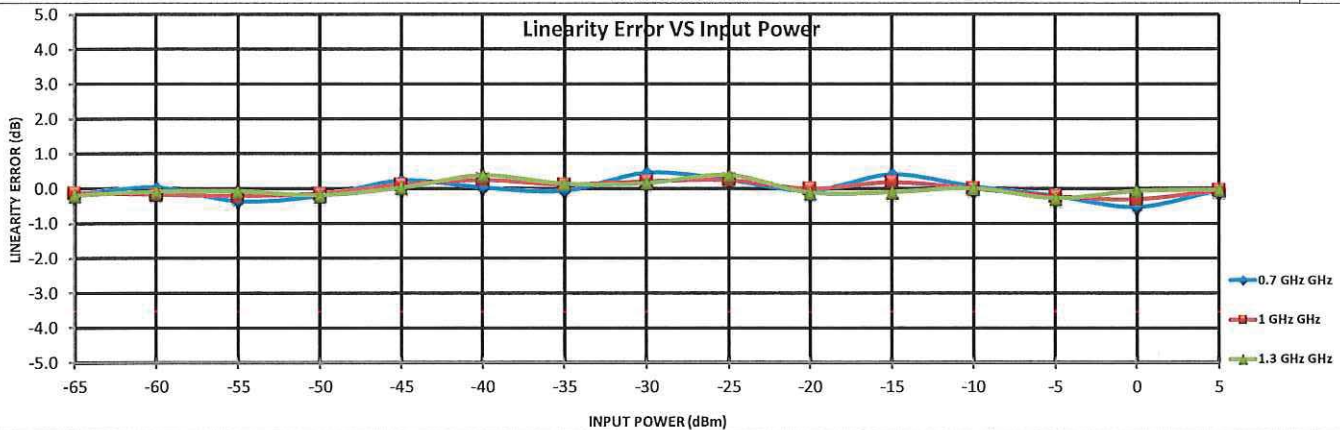
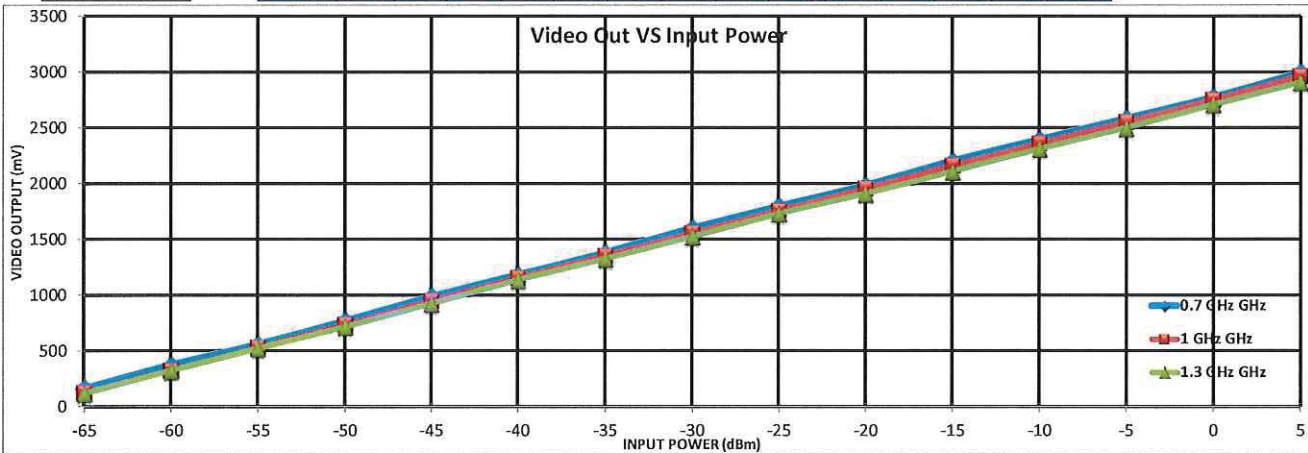
Frequency

		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
<b>0.7 GHz</b>	INTERCEPT (mV)	160 370 556 764 984 1178 1376 1599 1793 1982 2203 2391 2582 2771 2993															Measured Value (mV)
	SLOPE (mV/dB)	-0.15 0.04 -0.35 -0.20 0.24 0.05 -0.05 0.47 0.27 -0.05 0.42 0.07 -0.20 -0.52 -0.03															Error (mV)
																	0.52

<b>1 GHz</b>	INTERCEPT (mV)	129 329 530 735 948 1156 1353 1559 1763 1955 2165 2360 2553 2752 2965															Measured Value (mV)
	SLOPE (mV/dB)	-5 -7 -8 -6 -6 5 11 5 9 10 0 8 0 -9 -12 -2															Error (mV)
		-0.11 -0.17 -0.20 -0.14 0.12 0.26 0.13 0.22 0.26 0.00 0.19 0.01 -0.22 -0.31 -0.04															0.31

<b>1.3 GHz</b>	INTERCEPT (mV)	122 325 524 718 925 1138 1327 1526 1734 1912 2111 2314 2501 2708 2908															Measured Value (mV)
	SLOPE (mV/dB)	-8 -3 -3 -8 1 15 6 6 16 -5 -4 0 -11 -3 -1															Error (mV)
		-0.20 -0.09 -0.08 -0.19 0.02 0.39 0.15 0.16 0.40 -0.11 -0.10 0.01 -0.28 -0.06 -0.03															0.40

Flatness +/-dB	0.5	0.6	0.4	0.6	0.7	0.5	0.6	0.9	0.7	0.9	1.1	1	1	0.8	1.1
----------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---	---	-----	-----



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



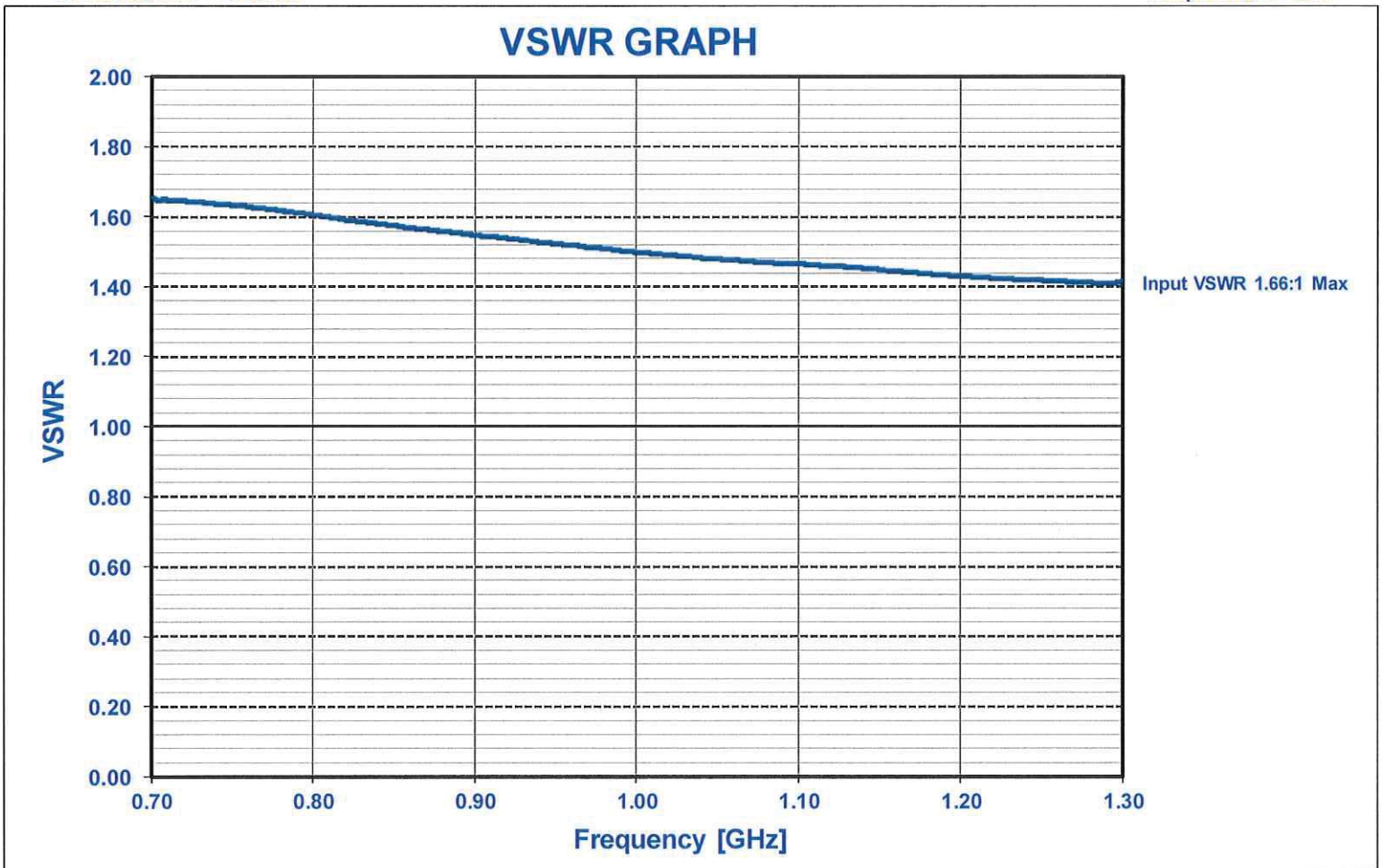
**SUMMARY TEST DATA**  
**ON**  
**SDLVA-0R71R3-75-CD-3**

PL22905/1825

**Input VSWR**

Model Number: SDLVA-0R71R3-75-CD-3  
Serial Number: PL22905

Temperature: +25C



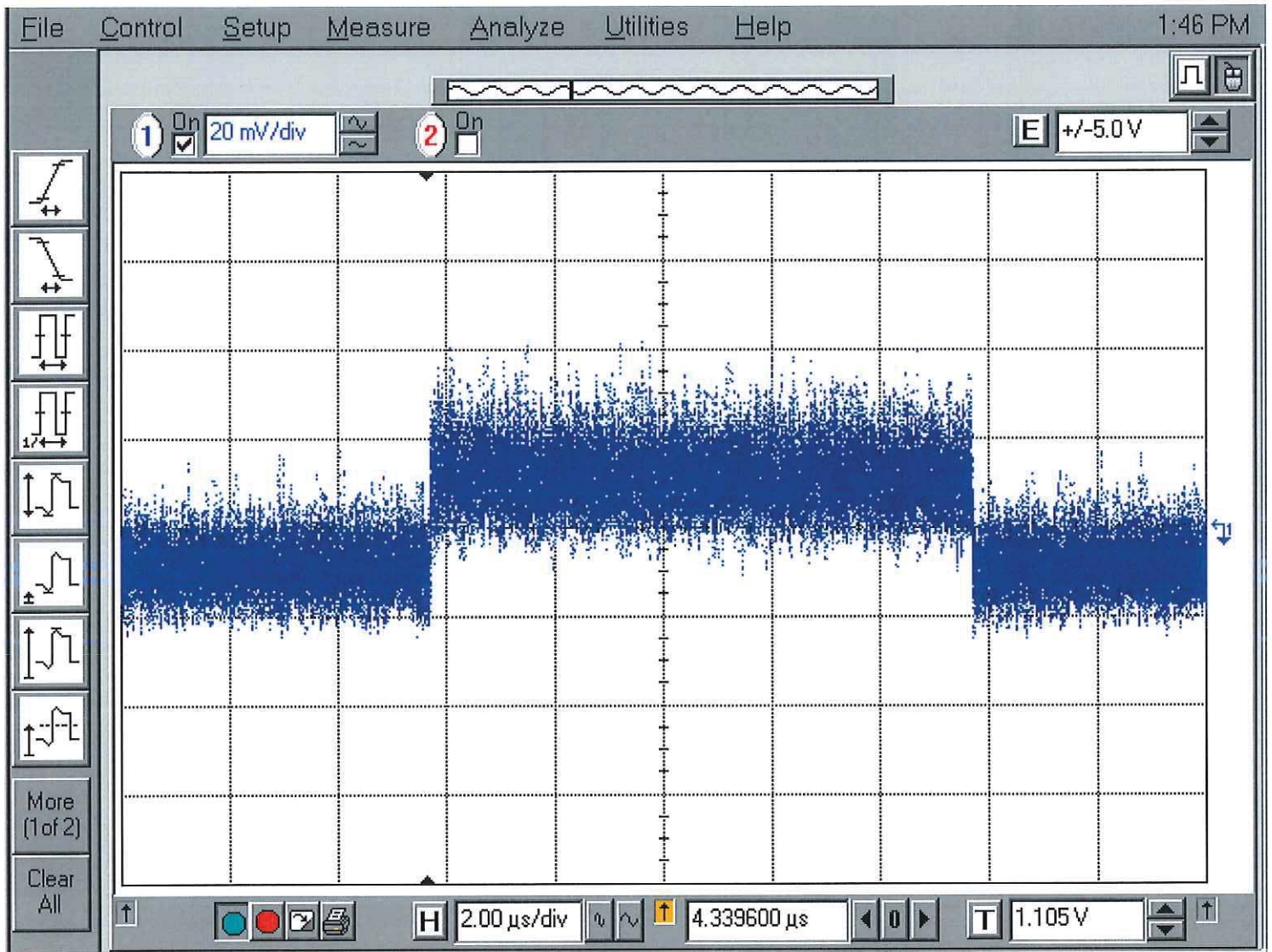
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



**SUMMARY TEST DATA  
ON  
SDLVA-0R71R3-75-CD-3**

PL22905/1825

TSS



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)