



**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

PL26961/1944

Customer: _____ Tested By: J. Emperador
SO No: _____ Temperature: +25°C
Model No: SDLVA-18G40G-65-CD-292FF-
OPT93OHM Date: 10-31-2019
Serial No: PL26961/1944 Drawing No: ETD000046

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	18.0 to 40.0GHz	18.0 to 40.0GHz	PMI QA 2
2	TSS (See Graph #2)	-65 dBm Max.	-65.0 dBm	
3	Power Handling	+10dBm Max.	+10dBm	
4	Dynamic Range:	-63dBm to +2dBm	-63dBm to +2dBm	
5	Log Linearity: @+25C (See Graph #1)	± 2.0 dB Max.	+1.02 dB -1.24 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	25.2 mV/dB	
7	Log Slope Variation: (See Graph #1)	±2.0 mV/dB Max.	±0.79 mV/dB	
8	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.60 dB	
9	Pulse Width Range:	30ns to CW	30 ns to CW	
10	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	6.35 ns	
11	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	59.1 ns	
12	Delay Time:	60ns Max.	PASS	
13	Input VSWR: (See Graph #5)	2.5:1 Max.	2.30:1	
14	Power Supply	+12V @ 400mA -12V @ 200mA	+298 mA -157 mA	PMI QA 2

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



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Model: SDLVA-18G40G-65-CD-292FF
Graph #1
Log Transfer vs Frequency @+25C

MODEL: SDLVA-18G40G-65-CD-292FF
SERIAL NO: PL26961
DATE: 10/31/19
TESTED BY: J.Emperador
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

Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)				
18 GHz	INTERCEPT (mV)	1742															Measured Value (mV)	Error(dB)		
	SLOPE (mV/dB)	26.3	78	214	342	471	611	771	893	1013	1133	1270	1414	1537	1657	1773	Error (mV)	MAX	MIN	
			-9	-5	-8	-10	-2	27	17	6	-5	0	13	5	-7	-22	LINEARITY ERROR (dB)		1.02	-0.84
			-0.36	-0.18	-0.31	-0.40	-0.07	1.02	0.66	0.23	-0.20	0.02	0.50	0.18	-0.25	-0.84				
23.5 GHz	INTERCEPT (mV)	1717															Measured Value (mV)	Error(dB)		
	SLOPE (mV/dB)	24.7	158	287	414	541	666	769	890	1014	1139	1282	1410	1526	1645	1760	Error (mV)	MAX	MIN	
			-4	2	5	9	10	-10	-13	-12	-11	9	14	6	2	-7	LINEARITY ERROR (dB)		0.55	-0.51
			-0.16	0.07	0.21	0.35	0.42	-0.41	-0.51	-0.49	-0.43	0.37	0.55	0.25	0.07	-0.27				
29 GHz	INTERCEPT (mV)	1689															Measured Value (mV)	Error(dB)		
	SLOPE (mV/dB)	25.3	82	224	355	478	614	732	849	975	1099	1232	1382	1493	1611	1727	Error (mV)	MAX	MIN	
			-14	1	6	2	12	4	-6	-6	-9	-2	21	6	-2	-13	LINEARITY ERROR (dB)		0.85	-0.56
			-0.56	0.05	0.23	0.10	0.48	0.14	-0.23	-0.25	-0.35	-0.09	0.85	0.24	-0.10	-0.51				
34.5 GHz	INTERCEPT (mV)	1677															Measured Value (mV)	Error(dB)		
	SLOPE (mV/dB)	25.2	92	228	359	482	613	700	815	943	1070	1208	1377	1494	1614	1734	Error (mV)	MAX	MIN	
			1	11	16	13	19	-20	-31	-29	-28	-16	27	18	12	6	LINEARITY ERROR (dB)		1.08	-1.24
			0.05	0.45	0.65	0.53	0.74	-0.81	-1.24	-1.16	-1.11	-0.63	1.08	0.72	0.49	0.26				
40 GHz	INTERCEPT (mV)	1684															Measured Value (mV)	Error(dB)		
	SLOPE (mV/dB)	24.8	123	250	380	503	630	726	843	974	1103	1243	1376	1493	1613	1734	Error (mV)	MAX	MIN	
			1	4	10	9	12	-16	-23	-16	-11	5	14	7	3	0	LINEARITY ERROR (dB)		0.58	-0.93
			0.03	0.15	0.39	0.36	0.48	-0.65	-0.93	-0.64	-0.44	0.21	0.58	0.30	0.14	0.02				
Flatness +/- dB		1.60	1.40	1.40	1.40	1.10	1.40	1.50	1.40	1.40	1.50	0.80	0.90	0.90	0.90					
Max Video Output Volts		0.158	0.287	0.414	0.541	0.666	0.771	0.893	1.014	1.139	1.282	1.414	1.537	1.657	1.773					
Min Video Output Volts		0.078	0.214	0.342	0.471	0.611	0.700	0.815	0.943	1.070	1.208	1.376	1.493	1.611	1.727					
Video Output @ -63dBm	Spec.	0.078	0.065														Log Slope Average: mV/dB	25.2		
		0.158	0.280														Log Slope Variation: ± mV/dB	0.79		
Video Output @ +2dBm	Spec.	1.727	1.476														Video Output Voltage With No RF	0.025		
		1.773	1.940																	



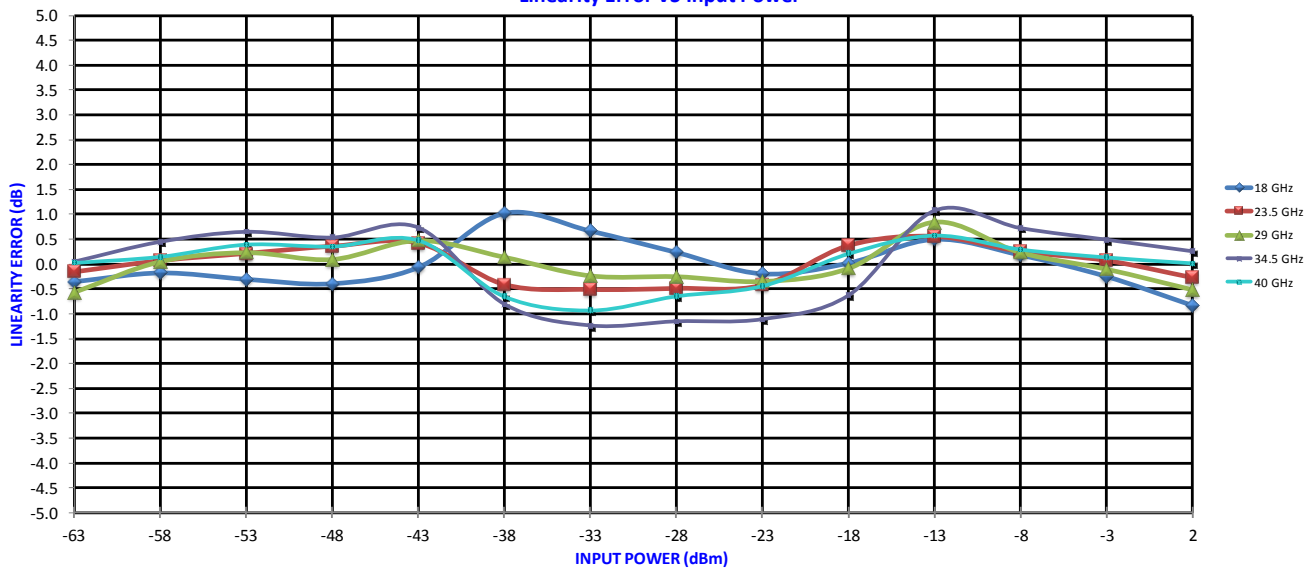
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ON
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PL26961/1944

Model: SDLVA-18G40G-65-CD-292FF
Graph #1 (cont.)
Log Transfer vs Frequency @+25C

MODEL: SDLVA-18G40G-65-CD-292FF
SERIAL NO: PL26961
DATE: 10/31/19
TESTED BY: J.Emperador
Test Temp: +25C

Linearity Error VS Input Power





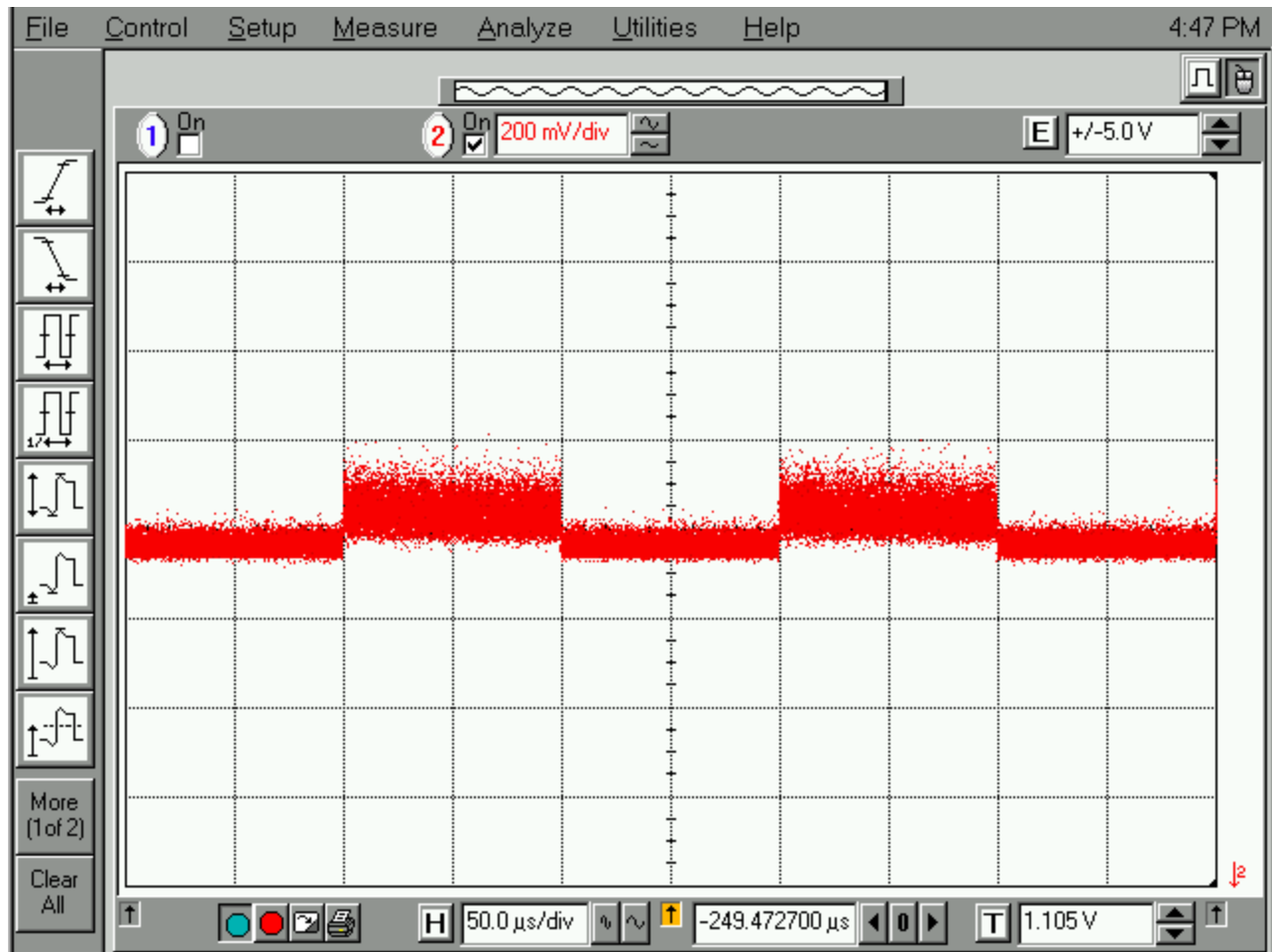
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Model: SDLVA-18G40G-65-CD-292FF

Graph #2

TSS -65.0 dBm @+25C

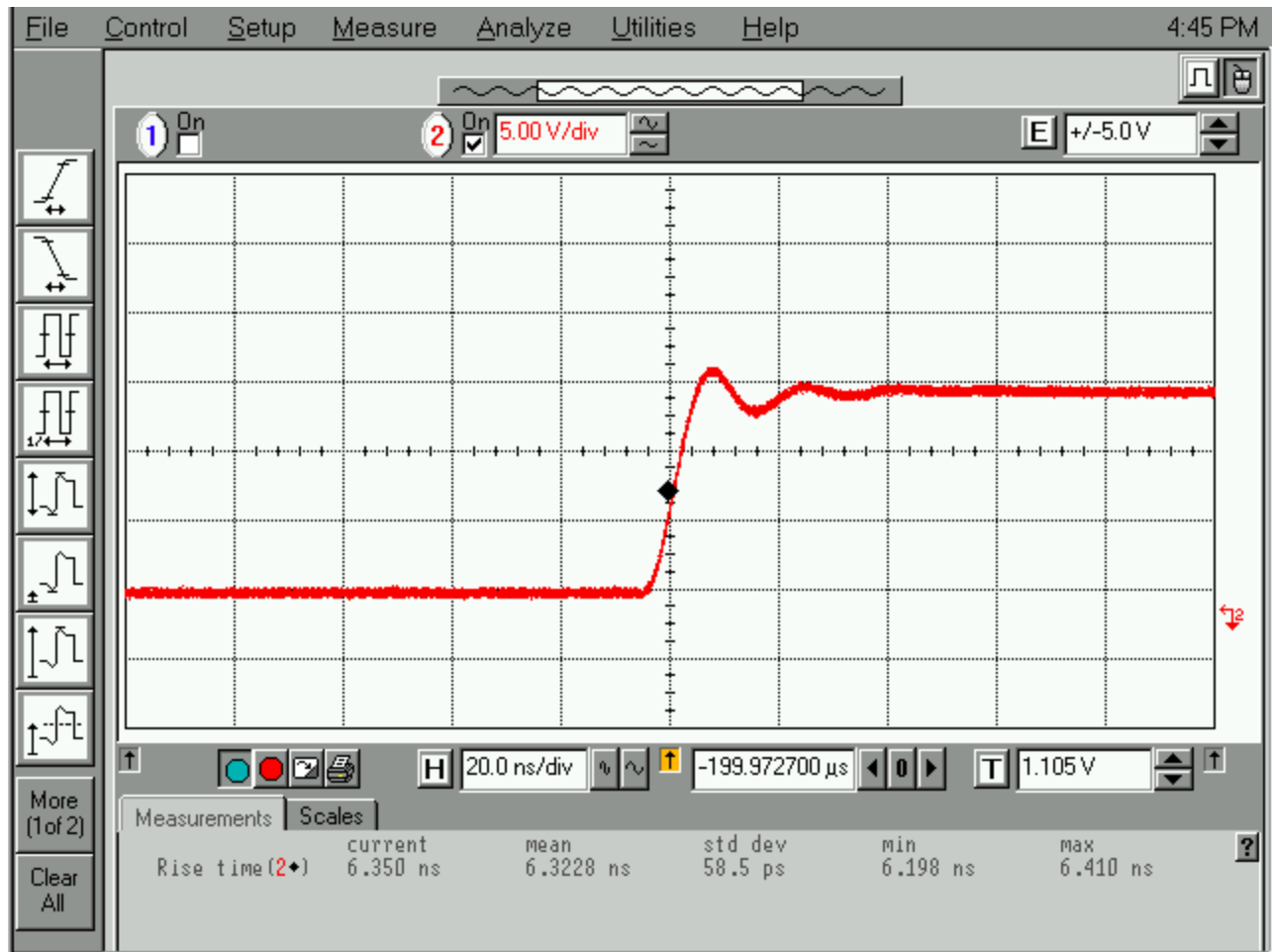




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Model: SDLVA-18G40G-65-CD-292FF
Graph#3
Rise Time 6.35 ns @+25C & +2dBm

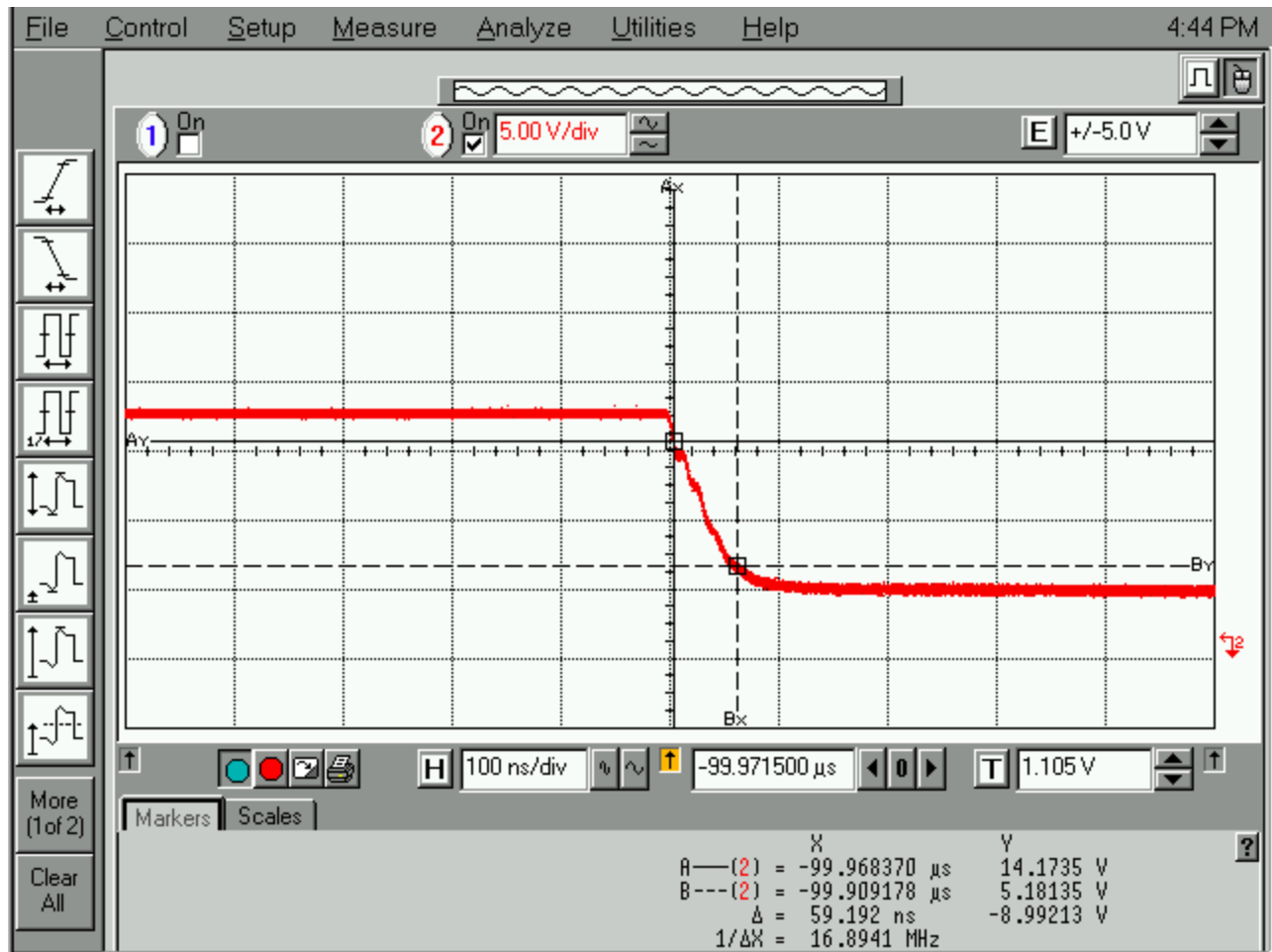




**SUMMARY TEST DATA
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Model: SDLVA-18G40G-65-CD-292FF
Graph#4
Recovery Time 59.2 ns @+25C & +2dBm





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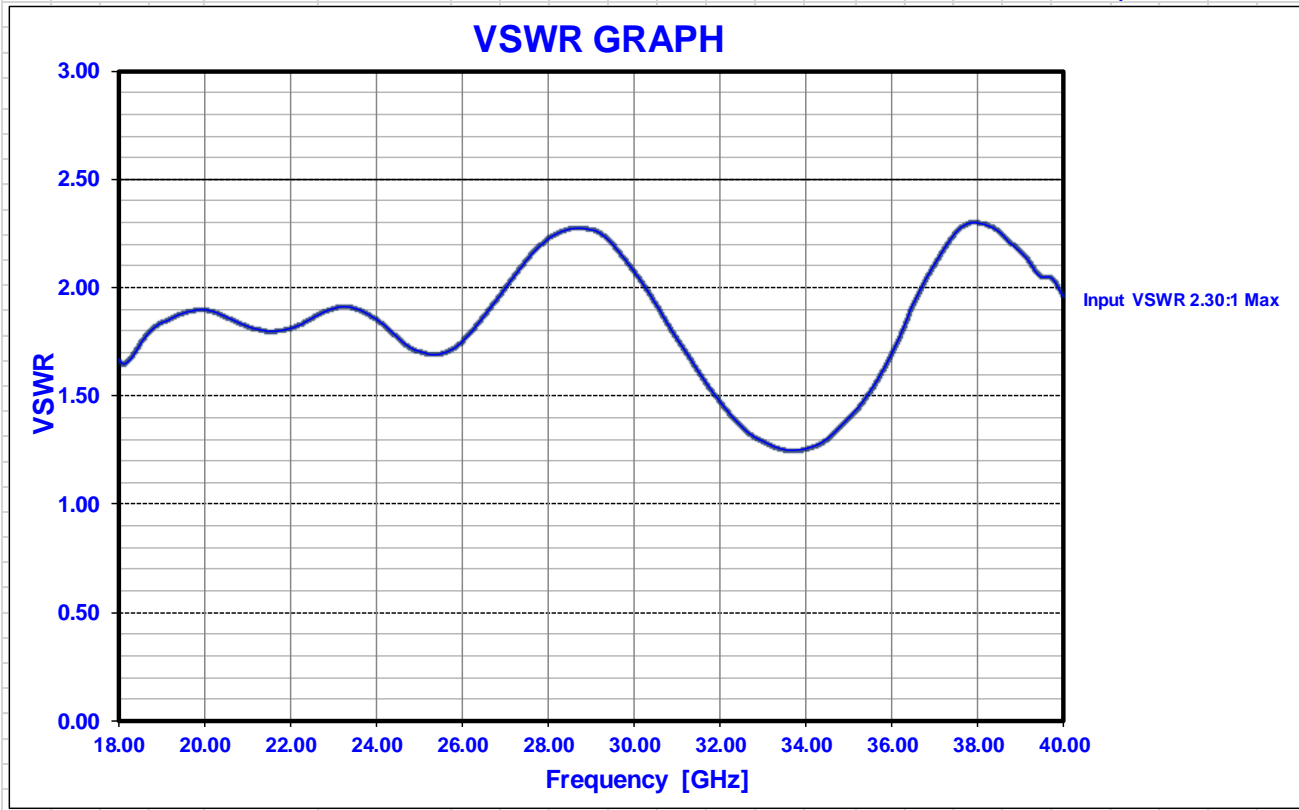
Model: SDLVA-18G40G-65-CD-292FF

Graph #5

VSWR 2.30:1 @+25C & -20dBm

Model Number: SDLVA-18G40G-65-2-292FF-A15
Serial Number: PL26961

Temperature: +25C



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