



**SUMMARY TEST DATA  
ON  
SDLVA-26R5G40G-65-CD-1**

PL21608/1738

Customer: _____	Tested By: <u>J.Emperador</u>
SO No: _____	Temperature: <u>+25°C Unless Otherwise Specified</u>
Model No: <u>SDLVA-26R5G40G-65-CD-1</u>	Date: <u>09/22/2017</u>
Serial No: <u>PL21608/1738</u>	Drawing No: <u>27633292</u> <span style="float: right;">Re v A2</span>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	26.5 to 40.0GHz	26.5 to 40.0 GHz	PMI QA 1
2	TSS (See Graph #2)	-65 dBm Max.	-67 dBm	
3	Power Handling	+15dBm Max.	+15 dBm	
4	Dynamic Range:	-63dBm to +2dBm	-63 to +2 dBm	
5	Log Linearity: @+25C (See Graph #1)	± 2.0 dB Max.	+1.71 dB -0.69 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	24.2 mV/dB	
7	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.4 dB	
8	Pulse Width Range:	30ns to CW	30ns to CW	
9	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	9.45 ns	
10	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	43.6 ns	
11	Delay Time:	15ns Max.	9.2 ns	
12	Input VSWR: (See Graph #5)	2.5:1 Max.	2.28:1	
13	Power Supply	+12V @ 400mA -12V @ 200mA	332 mA 162 mA	PMI QA 1

QA/QC Approval:  PMI QA 1 Date: 9/22/17



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**Model: SDLVA-26R5G40G-65-CD-1**  
**Graph #1**  
**Log Transfer vs Frequency @+25C**

MODEL: SDLVA-26R540G-65-CD-1  
SERIAL NO: PL21608  
DATE: 09-22-2017  
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

Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)			
26.5 GHz	INTERCEPT (mV)	1663															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.1	150	263	385	515	639	739	855	975	1100	1247	1354	1471	1591	1713	Error (mV)	MAX	MIN
			0.20	-0.11	-0.05	0.34	0.49	-0.36	-0.54	-0.56	-0.38	0.72	0.16	0.02	0.00	0.06	LINEARITY ERROR (dB)	0.72	-0.56
29.88 GHz	INTERCEPT (mV)	1660															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.4	128	243	364	487	624	737	853	974	1099	1243	1351	1462	1581	1701	Error (mV)	MAX	MIN
			0.07	-0.20	-0.24	-0.18	0.44	0.08	-0.15	-0.19	-0.05	0.86	0.30	-0.15	-0.26	-0.33	LINEARITY ERROR (dB)	0.86	-0.33
33.25 GHz	INTERCEPT (mV)	1637															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	23.6	156	269	390	515	631	734	845	961	1085	1233	1338	1446	1564	1689	Error (mV)	MAX	MIN
			0.16	-0.05	0.08	0.39	0.31	-0.32	-0.61	-0.69	-0.43	0.85	0.31	-0.11	-0.10	0.20	LINEARITY ERROR (dB)	0.85	-0.69
36.63 GHz	INTERCEPT (mV)	1660															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.5	118	231	351	470	594	743	863	987	1113	1238	1337	1453	1575	1699	Error (mV)	MAX	MIN
			0.10	-0.29	-0.39	-0.54	-0.48	0.60	0.49	0.55	0.69	0.78	-0.18	-0.45	-0.47	-0.41	LINEARITY ERROR (dB)	0.78	-0.54
40 GHz	INTERCEPT (mV)	1627															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.2	111	220	338	461	571	699	816	942	1078	1232	1322	1425	1542	1667	Error (mV)	MAX	MIN
			0.47	-0.03	-0.17	-0.09	-0.55	-0.27	-0.45	-0.25	0.36	1.71	0.43	-0.32	-0.50	-0.34	LINEARITY ERROR (dB)	1.71	-0.55
Flatness +/- dB		0.90	1.00	1.10	1.10	1.40	0.90	1.00	0.90	0.70	0.30	0.70	1.00	1.00	1.00				
Max Video Output Volts		0.156	0.269	0.390	0.515	0.639	0.743	0.863	0.987	1.113	1.247	1.354	1.471	1.591	1.713				
Min Video Output Volts		0.111	0.220	0.338	0.461	0.571	0.699	0.816	0.942	1.078	1.232	1.322	1.425	1.542	1.667				
Video Output @ -63dBm	Spec.	Min(V)=	0.111	0.065												Log Slope Average: mV/dB	24.2		
		Max(V)=	0.156	0.280												Log Slope Variation: ± mV/dB	0.47		
Video Output @ +2dBm	Spec.	Min(V)=	1.667	1.478												Video Output Voltage With No RF	-0.010		
		Max(V)=	1.713	1.940															



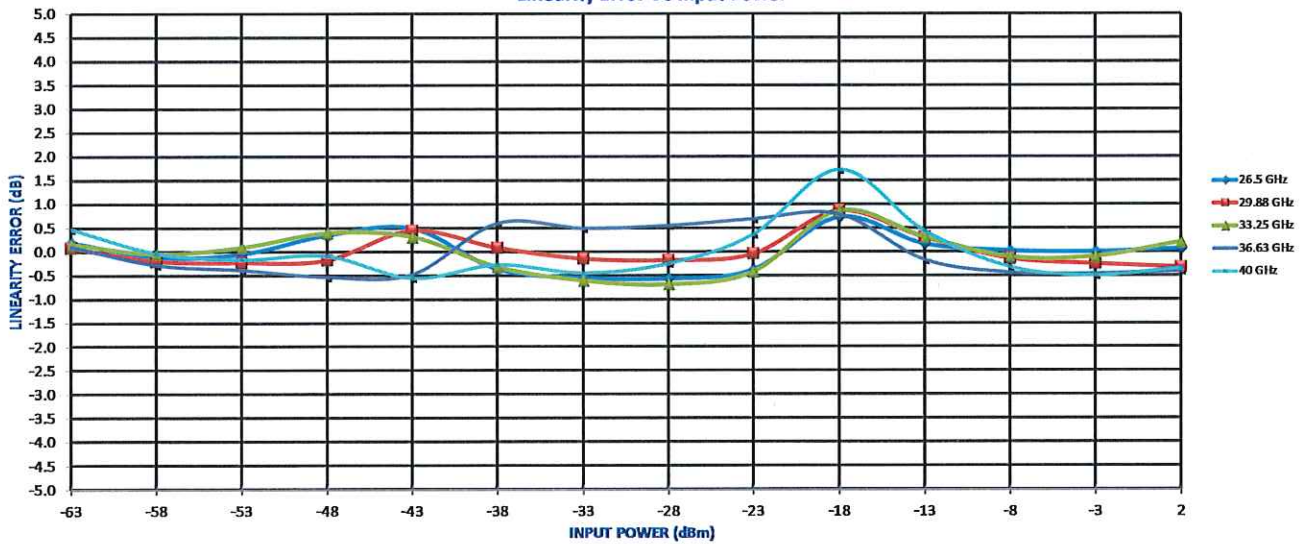
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Model: SDLVA-26R5G40G-65-CD-1  
Graph #1 (cont.)  
Log Transfer vs Frequency @+25C

MODEL: SDLVA-26R540G-65-CD-1  
SERIAL NO: PL21608  
DATE: 09-22-2017  
TESTED BY: E.Benson  
Test Temp: +25C

Linearity Error VS Input Power



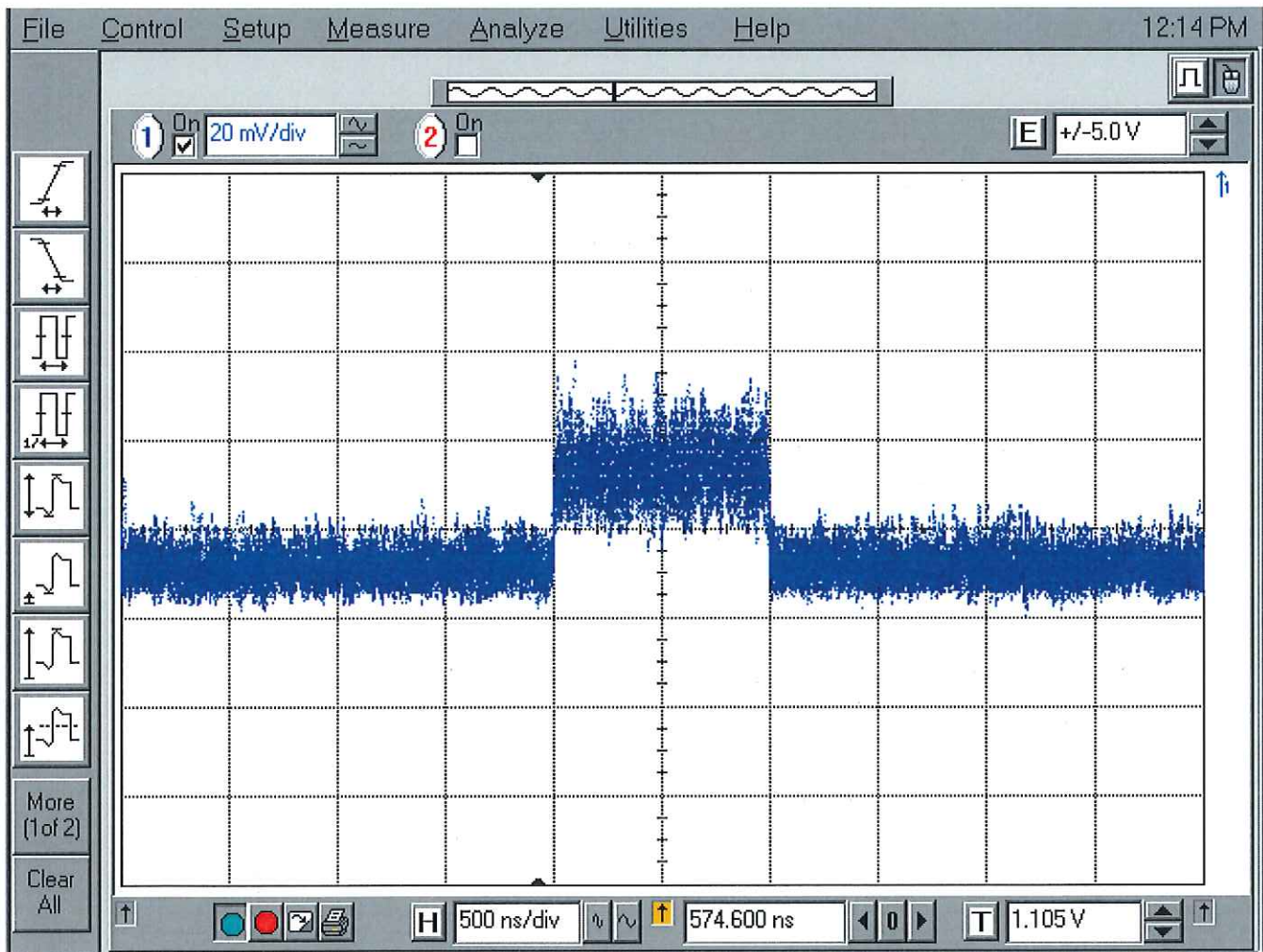


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Model: SDLVA-26R5G40G-65-CD-1

Graph #2  
TSS-67dBm @+25C

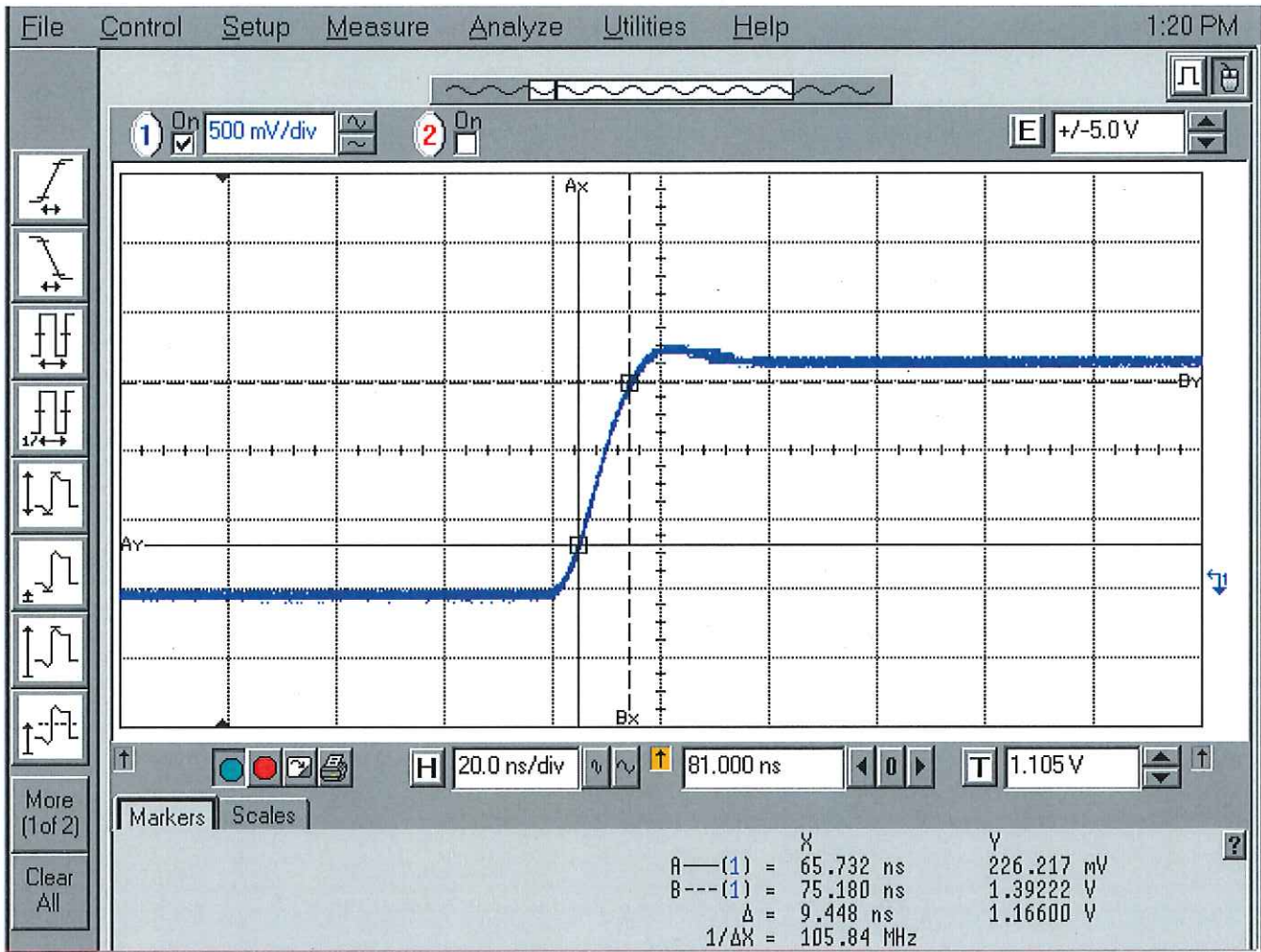




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Model: SDLVA-26R5G40G-65-CD-1  
Graph#3  
Rise Time 9.45ns @+25C & +2dBm

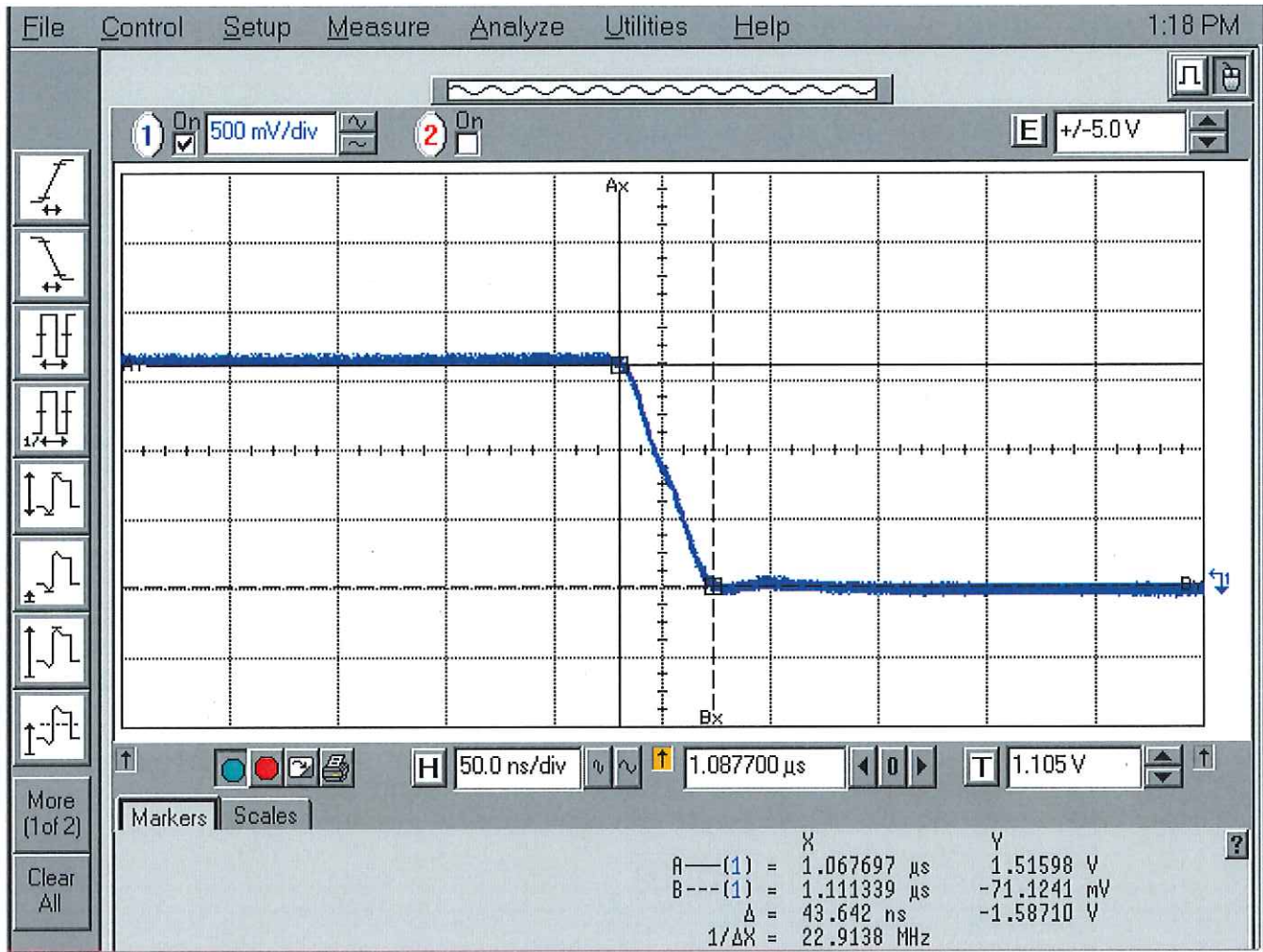




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Model: SDLVA-26R5G40G-65-CD-1  
Graph#4  
Recovery Time 43.6ns @+25C & +2dBm





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Model: SDLVA-26R5G40G-65-CD-1  
Graph #5  
VSWR 2.28:1 @+25C & -20dBm

