



**Typical Characteristics
on
DTA-50M2D5G-CD-SFF-1**

PMI MODEL NUMBER DTA-50M2D5G-CD-SFF-1 IS A NON-REFLECTIVE 10 BIT PROGRAMMABLE 60 DB PIN DIODE ATTENUATOR WITH STEP RESOLUTION AS LOW AS 0.06 DB OVER THE FREQUENCY RANGE OF 50 MHz TO 2.5 GHz.



October 5, 2014
Designed By: PMI Engineering
Tested and Reported By: Kevin Mansfield



Typical Characteristics on DTA-50M2D5G-CD-SFF-1

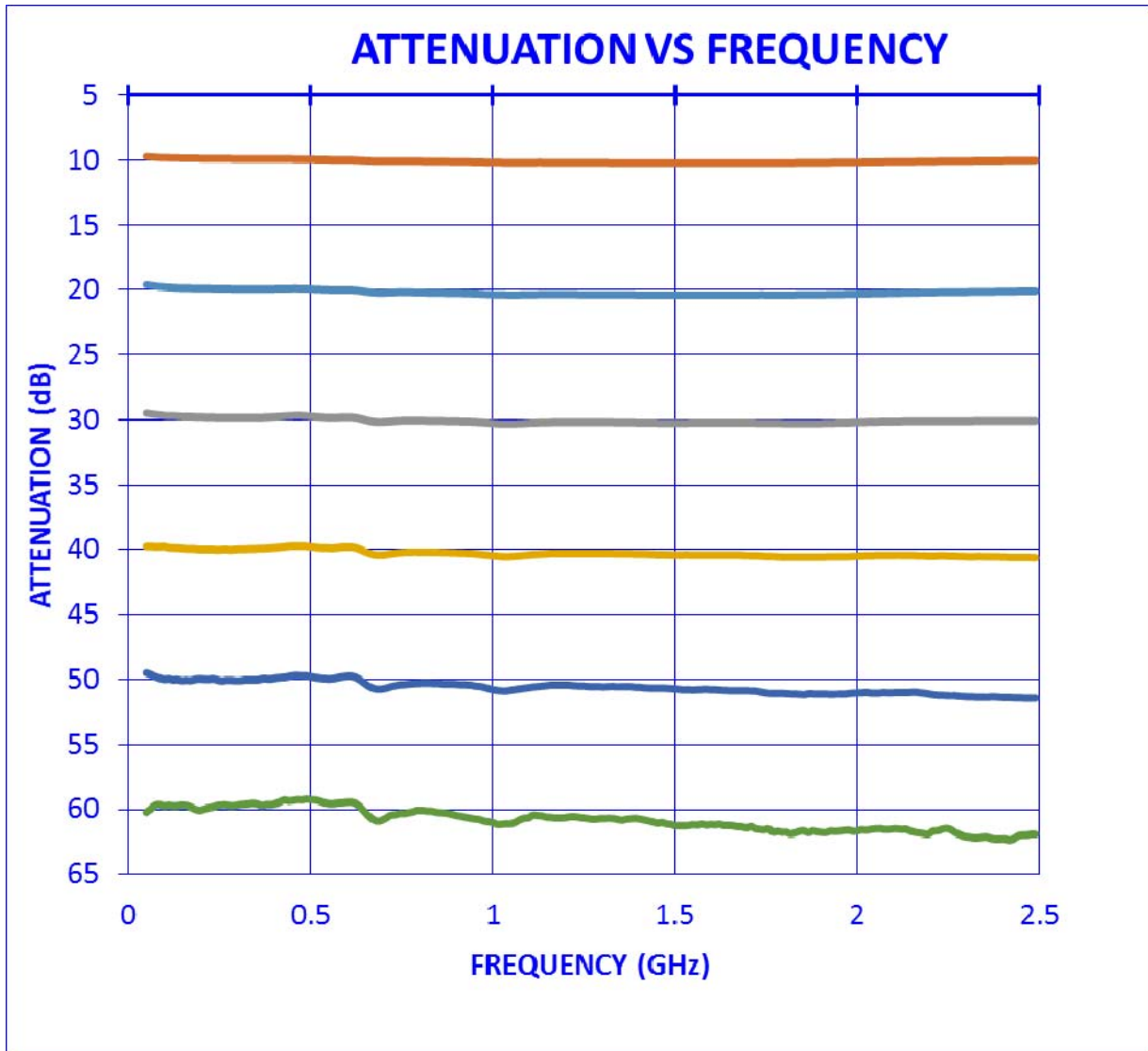
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	50 MHz – 2.5 GHz	50 MHz – 2.5 GHz	
2	Insertion Loss:	4.5 dB Max.	3.7 dB	
3	VSWR:	2.0:1 Max.	1.9 :1	
4	Flatness up to 20dB:	± 0.6 dB Max.	± 0.39 dB	
5	Flatness up to 40dB:	± 0.75 dB Max.	± 0.44 dB	
6	Flatness up to 60dB:	± 2.5 dB Max.	± 1.58 dB	
7	Accuracy of Attenuation 0 to 20 dB:	± 0.5 dB Max.	± 0.13 dB	
8	Accuracy of Attenuation 20 to 40 dB:	± 0.75 dB Max.	± 0.15 dB	
9	Accuracy of Attenuation 40 to 60 dB:	± 1.5 dB Max.	± 0.79 dB	
10	Switching Speed:	ON: 0.75 usec Typ. OFF: 0.45 usec Typ.	< 0.60 usec < 0.30 usec	
11	DC Supply:	+15VDC @ 50 mA -15VDC @ 50 mA	+15 VDC @ 42 mA -15 VDC @ 50 mA	

Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
0.06	0.03	0.03	0.00
0.13	0.07	0.06	0.01
0.25	0.18	0.07	0.01
0.50	0.38	0.12	0.01
1.00	0.87	0.13	0.02
2.00	1.91	0.09	0.05
4.00	4.07	-0.07	0.12
8.00	8.00	0.00	0.21
16.00	16.04	-0.04	0.36
32.00	31.89	0.11	0.44
62.00	62.44	-0.44	2.01
63.94	64.42	-0.48	2.20

Programed Attenuation	Attenuation	Accuracy of Attenuation	Flatness dB
dB	dB	dB	±dB
5.00	5.09	-0.09	0.14
10.00	9.97	0.03	0.25
15.00	15.03	-0.03	0.34
20.00	20.00	0.00	0.39
25.00	24.93	0.07	0.40
30.00	29.90	0.10	0.41
35.00	34.95	0.05	0.43
40.00	40.15	-0.15	0.44
45.00	45.38	-0.38	0.63
50.00	50.46	-0.46	0.97
55.00	55.69	-0.69	1.23
60.00	60.79	-0.79	1.58



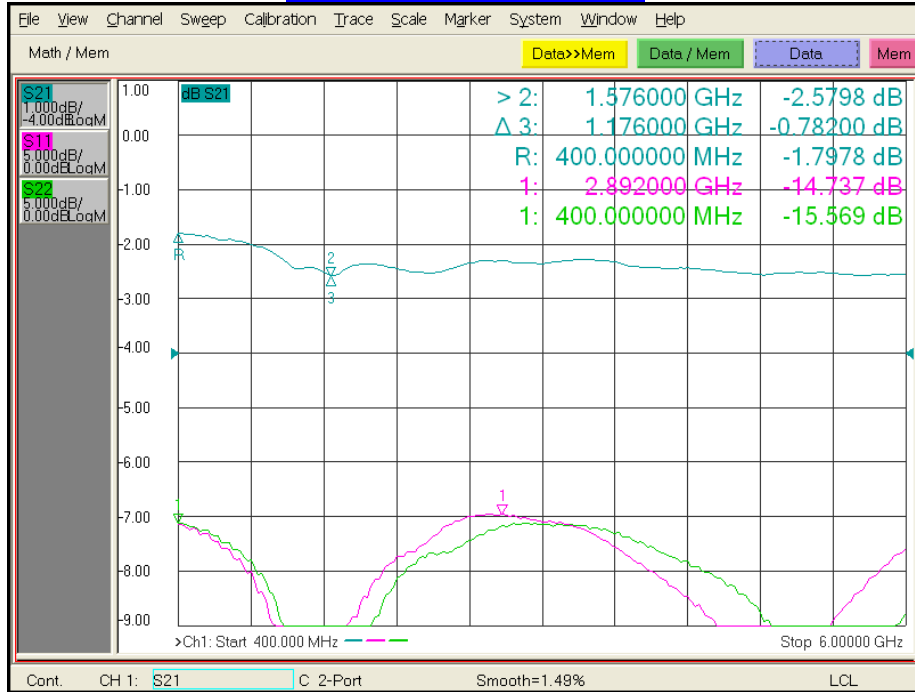
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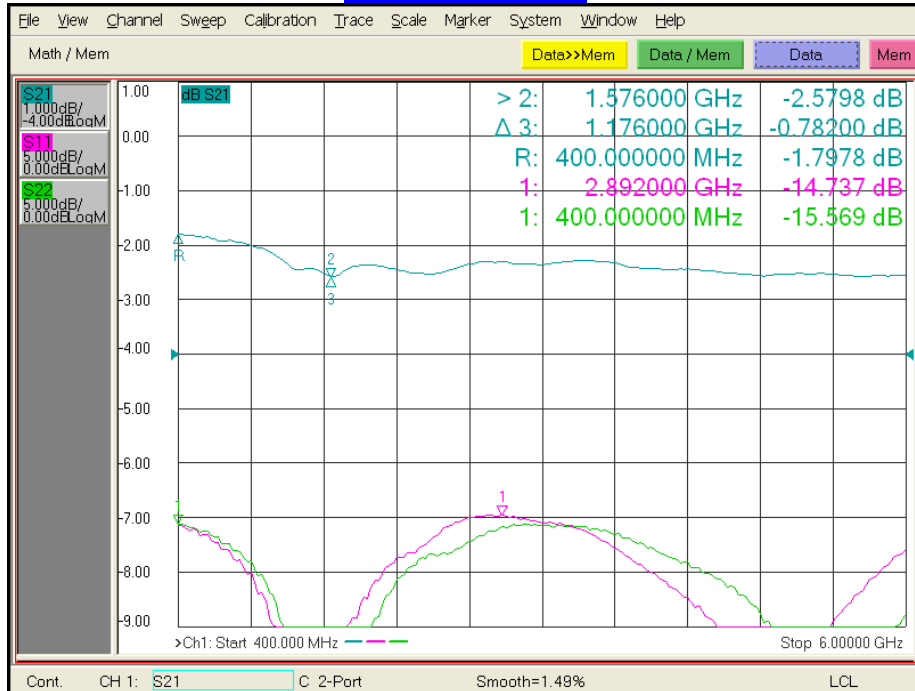


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Insertion Loss and VSWR



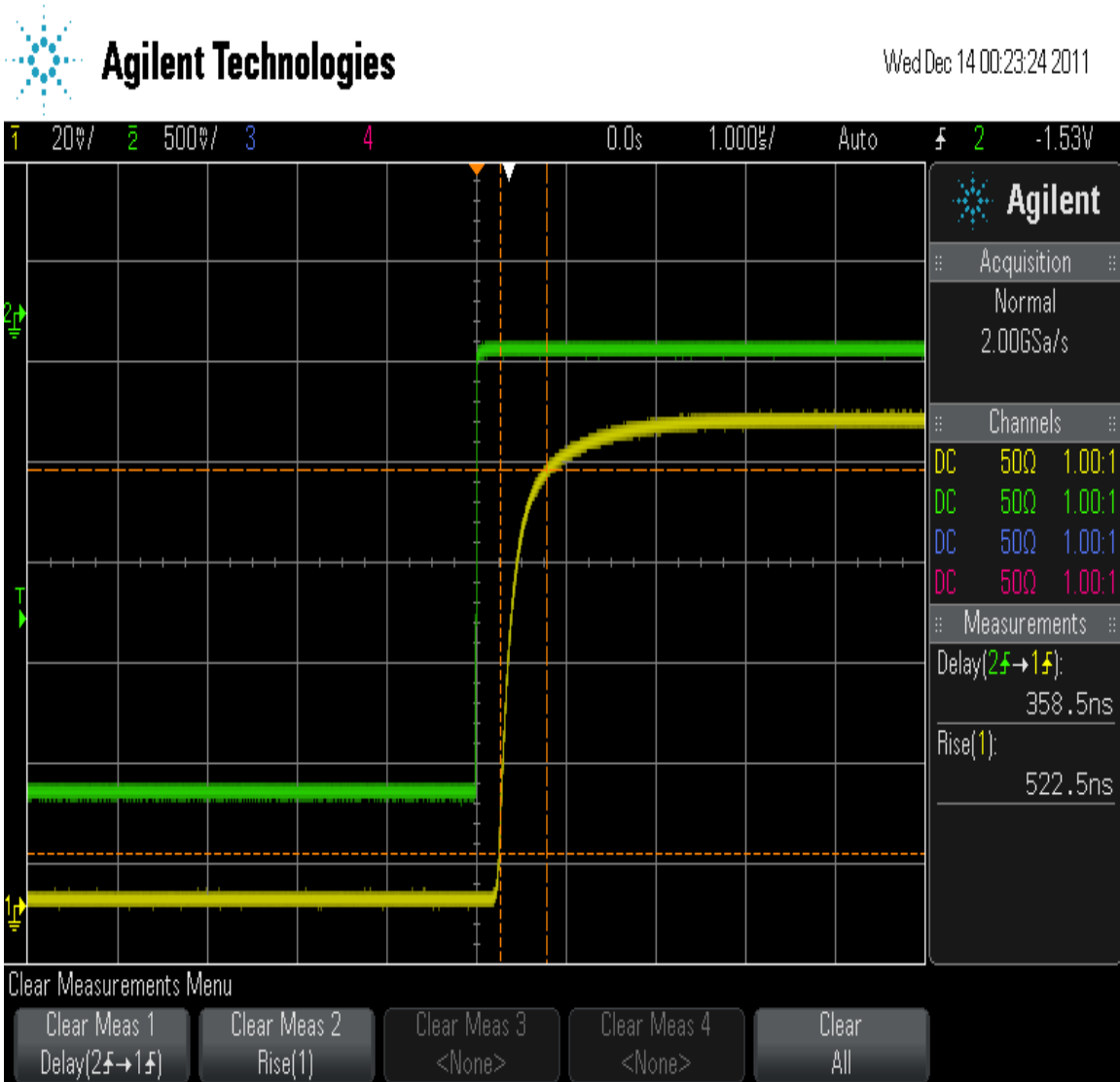
60dB Attenuation





Typical Characteristics on DTA-50M2D5G-CD-SFF-1

Delay On Time



Channel 1 (Yellow): RF output

Channel 2 (Green): TTL Input from Signal Generator

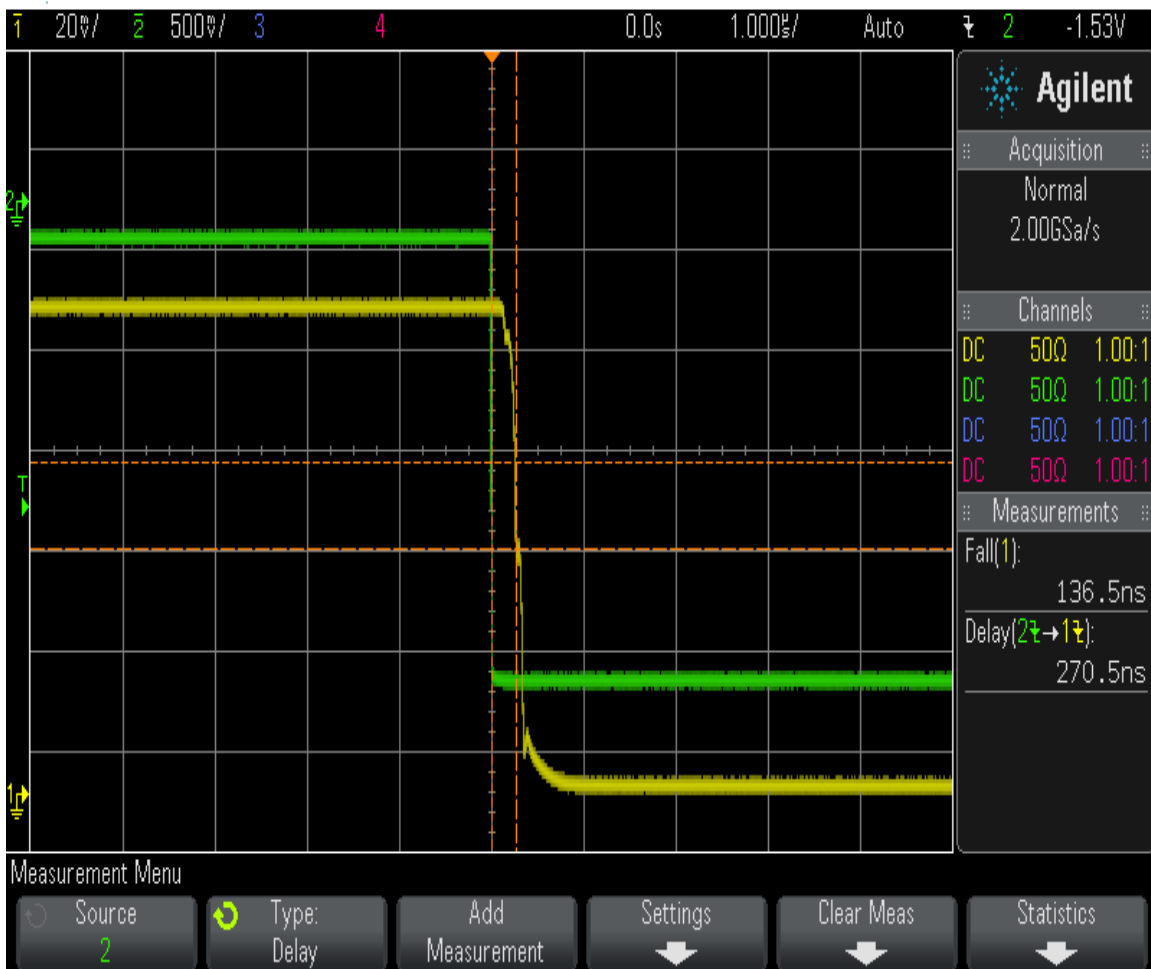


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Delay Off Time



Wed Dec 14 00:26:05 2011



Channel 1 (Yellow): RF output

Channel 2 (Green): TTL Input from Signal Generator