



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2013

0.1 to 40.0GHz 5-Bit 30dB Digital Attenuator PMI Model No. DTA-100M40G-30-CD-1



PMI Model DTA-100M40G-30-CD-1 is a 5-Bit programmable 30dB PIN diode attenuator with a step resolution of 1.0dB over the frequency range of 100MHz to 40GHz. This model operates on a single +15VDC supply and draws only 40mA of current. Very high levels of attenuation accuracy of 0.6dB is achieved. This attenuator provides ultra-fast switching speeds of 300nsec and has an operating input power rating of +20dBm. This model is supplied in a small, light-weight housing measuring 2.0 x 1.8 x 0.5 inches.

Frequency Range	100MHz to 40GHz
Mean Attenuation Range	30dB
LSB	1.0dB
Insertion Loss	5.0dB Typ. (Up to 20GHz) 8.0dB Typ. (Up to 40GHz)
VSWR	2.5:1 Max.
Accuracy of Attenuation	±2.5dB typ
Minimum Attenuation Step	1.0dB
Power Handling Capability	+24dBm CW max
Input 1dB Compression	+20dBm typ
Switching Time	
On Time	1.0usec max
Off Time	0.5usec max
Logic Input	
Logic "0"(Bit Off)	0 to +0.8V
Logic "1"(Bit On)	+2.0 to +5.0V
Power Supply	15V @ 50mA max
Connectors	(2) 2.92mm(F) & 15 Pin Micro-D Female
Size	2.0 x 1.8 x 0.5

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F Grove Road, Frederick,
Maryland 21704 USA |

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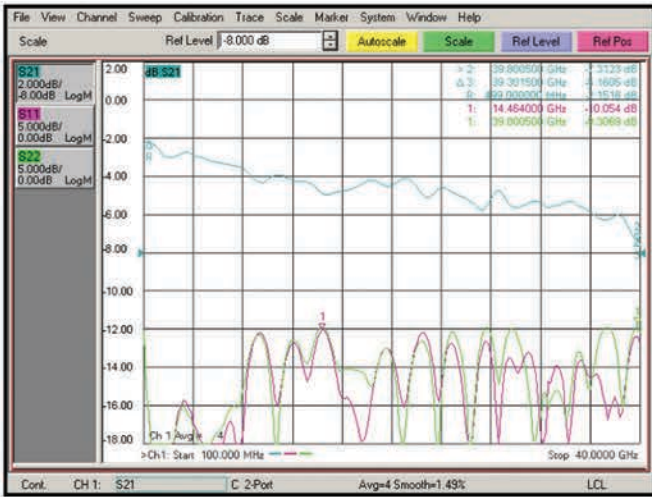
4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

Tel: 916-542-1401 | Fax: 916-265-2597

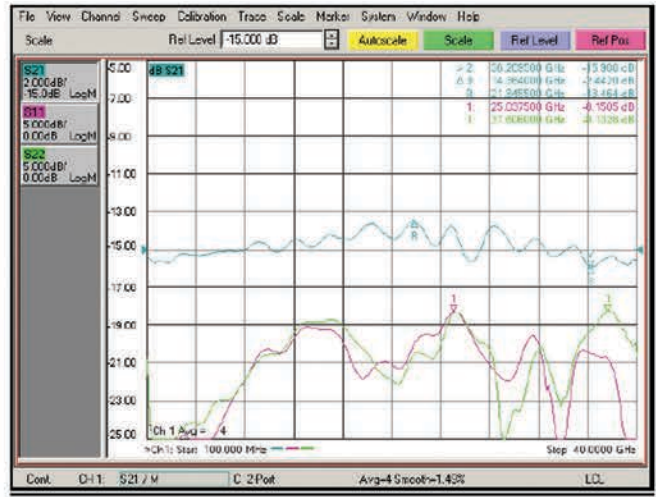
Email: sales@pmi-rf.com | www.pmi-rf.com

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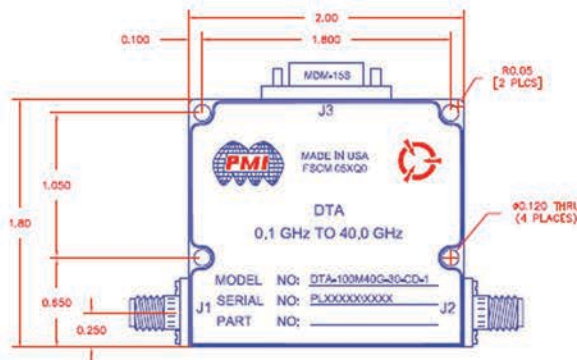
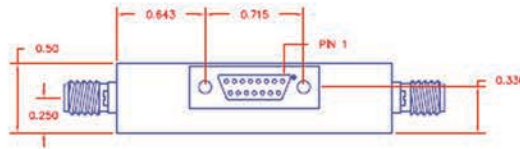
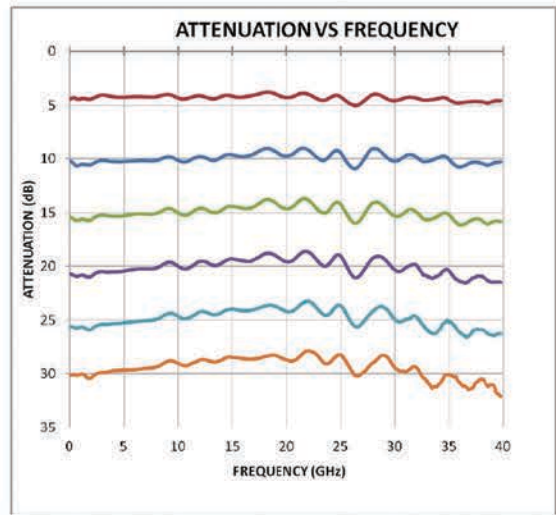
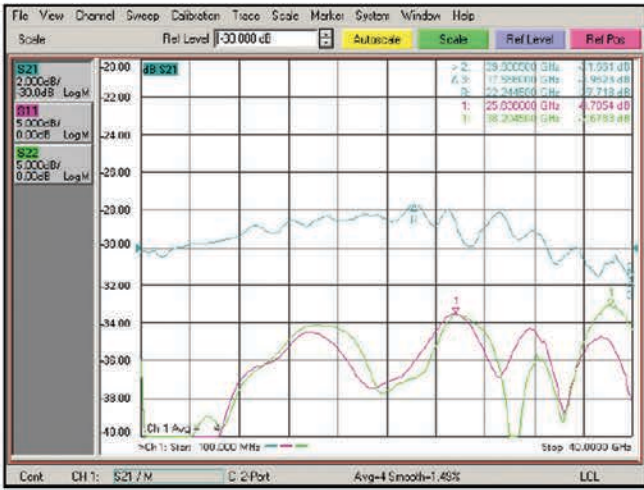
+25°C Insertion Loss & Return Loss



+25°C @ -15dB Attenuation



+25°C @ -30dB Attenuation



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