



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

14.0 to 40.0GHz 10-Bit,
32dB Digital Attenuator

PMI Model No. DTA-14G40G-32-CD-2

May 21, 2014



PMI Model No. DTA-14G40G-32-CD-2 is a 10 Bit programmable attenuator with step resolution as low as 0.04dB which provides over 32dB of attenuation over the frequency range of 14.0 to 40.0GHz. This model is offered in a slim line housing measuring 2.0" x 1.8" x 0.5" with 2.92mm female connectors and operates on a single +15VDC supply with only 40mA of current consumption typically.

Frequency Range	14.0 to 40.0GHz
Mean Attenuation Range	32dB min
Insertion Loss	9.0dB typ
LSB	0.04dB
VSWR	2.0:1 typ *Optimize Goal 15dB(14.0 to 14.5GHz & 27.0 to 31.0GHz)
Attenuation Flatness	±1.5dB Typ Measured ±0.74dB @ 10dB Attenuation Measured ±1.18dB @ 20dB Attenuation Measured ±1.61dB @ 30dB Attenuation
Attenuation Accuracy	±2.0dB Typ. Measured ±0.26dB @ 0 to 10dB Attenuation Measured ±0.08dB @ 10 to 20dB Attenuation Measured ±0.10dB @ 20 to 30dB Attenuation
Power Handling Capability	+24dBm CW Max.
Input 1dB Compression:	+10dBm Typ.
Switching Speed	
On Time	1.0 uSEC MAX – Measured 120ns
Off Time	0.5 uSEC MAX – Measured 266ns
Power Supply	15V @ 100mA max – Measured 41mA
Connectors	(2)2.92mm(F) & 15 Pin Micro-D-Female Shipped with mating Micro-D Male
Logic Input	Logic "0" (Bit Off): -0.3 to +0.8V Logic "1" (Bit On): +2.0 to +5.0V
Size	2.0 x 1.8 x 0.5

PLANAR MONOLITHICS INDUSTRIES, INC.

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Maryland 21704 USA |

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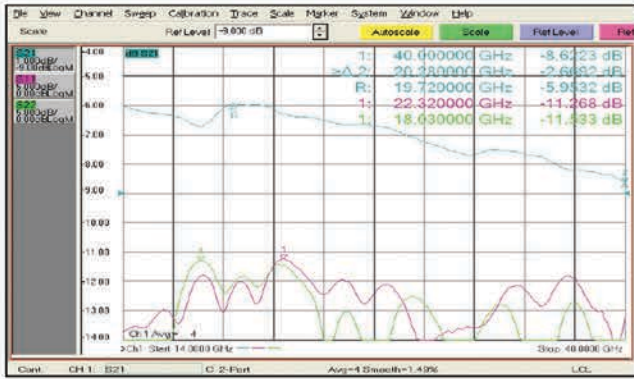
4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

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

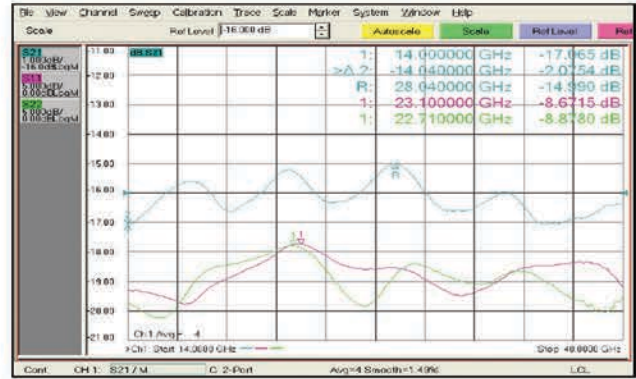
Email: sales@pmi-rf.com | www.pmi-rf.com

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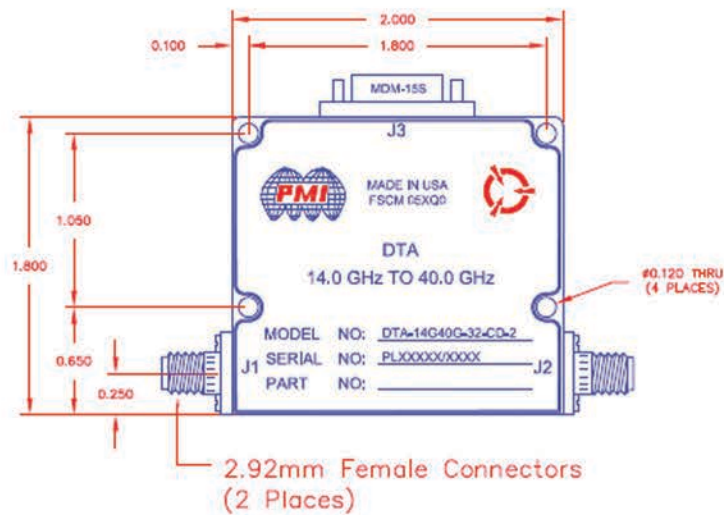
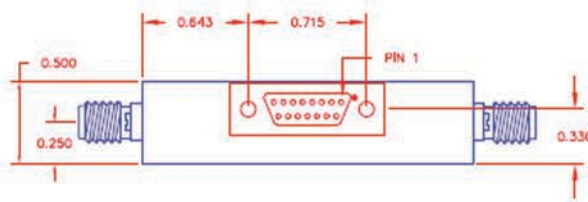
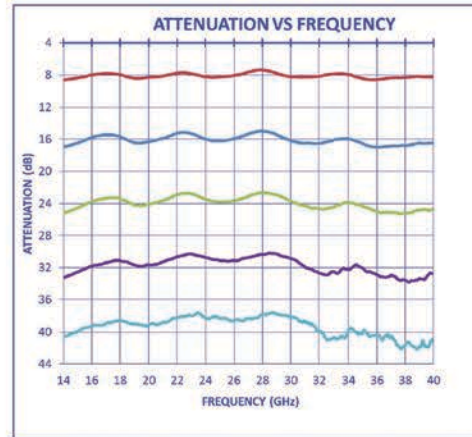
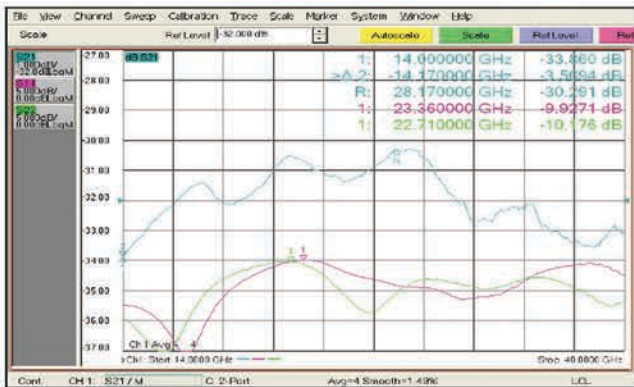
Insertion Loss & Return Loss



-16dB Attenuation



-32dB Attenuation



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