



# Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

## Digital, Variable Attenuator PMI Model No. DTA-100M40G-30-CD-1

PMI Model Number DTA-100M40G-30-CD-1 is a 5-Bit, digitally controlled 30dB PIN diode attenuator with a step resolution of 1dB covering the frequency range of 100MHz to 40GHz. This model operates on +5VDC and only draws 40mA. Attenuation accuracy of 0.6dB is achieved due to PMI's proprietary digital calibration techniques. This model offers excellent attenuation flatness over the full 100MHz to 40GHz frequency range and and operate with input power levels up to +20dBm. This unit is supplied in a very small housing that measures 2.0 x 1.8 x 0.5 inches.



### Specifications:

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.
Power Rating	+24dBm CW Max.
Input 1dB Compression:	+20dBm Typ.
Attenuation Accuracy	±0.6dB Typ.
Switching Speed	300nsec Typical, 1usec Max.
Digital Control	5-BIT Binary TTL
Input Tracking	Monotonic
DC Voltage	+15 @ 40mA Typical
DC Connector	15 Pin D-Sub Female (mating Connector Supplied)
RF Connectors	2.92mm Female
Size	2.0 x 1.8 x 0.5

### Environmental Ratings:

Temperature:	-50°C to +85 °C Operating -65 °C to +125 °C Non-Operating
Humidity:	MIL-STD-202F, Method 103B Cond. B
Shock:	MIL-STD-202F, Method 213B Cond. B
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A



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