



# Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

## 2.0 to 18.0GHz Digital, Variable Attenuator PMI Model No. DTA-2G18G-60-CD-2



PMI Model Number DTA-2G18G-60-CD-2 is a 10-Bit, digitally controlled 60dB PIN diode attenuator with a step resolution of 0.06dB covering the frequency range of 2.0 to 18GHz. This model operates on +15VDC and only draws 150mA. Attenuation accuracy of +/-0.4dB is achieved due to PMI's proprietary digital calibration techniques. This model offers excellent attenuation flatness over the full 2.0 to 18GHz frequency range and and operate with input power levels up to +15dBm. This unit is supplied in a very small housing that measures 2.0 x 1.8 x 0.5 inches.

### Specifications:

Frequency Range	2.0GHz to 18.0GHz
Mean Attenuation Range	60dB
LSB	0.06dB
Insertion Loss	4.5dB Max.
VSWR	2.0:1 Max.
Survival Power Rating	2W Average from -65C to +25C
Operating Input Power	+15dBm Typ.
Attenuation Flatness	±1.0dB @ 20dB Attenuation ±1.25dB @ 40dB Attenuation ±3.0dB @ 60dB Attenuation
Attenuation Accuracy	±1.0dB @ 0dB to 20dB Attenuation ±1.5dB @ 20dB to 40dB Attenuation ±2.0dB @ 40dB to 60dB Attenuation
Switching Speed:	
On Time	1usec Max.
Off Time	0.5usec Max.
Digital Control	10-BIT Binary TTL
DC Voltage	+15 @ 150mA Max
DC Connector	15 Pin D-Sub Female (Mating Connector Supplied)
RF Connectors	SMA Female
Size	2.00 x 1.80 x 0.50

### Environmental Ratings:

Temperature:	-40°C to +100 °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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