

# RF ATTENUATOR

## MODEL TG9006

Available as: TG9006, 5 Pin TO-8 (T5)  
 TNG9006, 4 Pin Surface Mount (SM3)  
 BXG9006, Connectorized Housing (H6)  
 FPG9006, 4 Pin FP-2

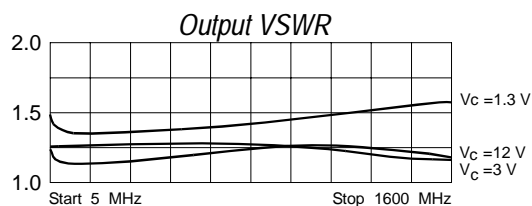
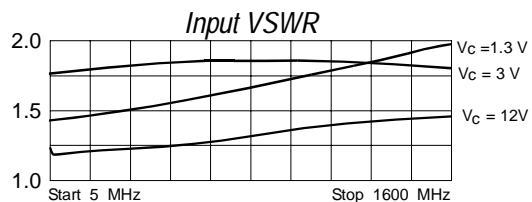
### Features

- 5 MHz to 1600 MHz
- Low Insertion Loss
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	5 - 1600 MHz	5 - 1600 MHz
Insertion Loss (Vc = 12) (dB)		
5-500 MHz	2.0	2.3 Max.
5-1000 MHz	2.2	2.5 Max.
5-2000 MHz	2.5	3.5 Max.
Max Attenuation (dB)		
5-500 MHz	33	31 Min.
5-1000 MHz	27	25 Min.
5-2000 MHz	23	18 Min.
VSWR (Input/Output)		
5-500 MHz	1.75:1	2.0:1 Max.
5-1000 MHz	1.75:1	2.0:1 Max.
5-2000 MHz	2.2:1	2.5:1 Max.
Flatness over Freq. (dB)		
5-500 MHz	±0.15	±0.25 Max.
5-1000 MHz	±0.5	±1.0 Max.
5-2000 MHz	±0.7	±1.5 Max.
Bias Power	Vdc mA	+12 10 Max.
Control Power	Vdc mA	0 to +12 0 to 7 Max.
Switching Speed (µsec)	40	60 Max.

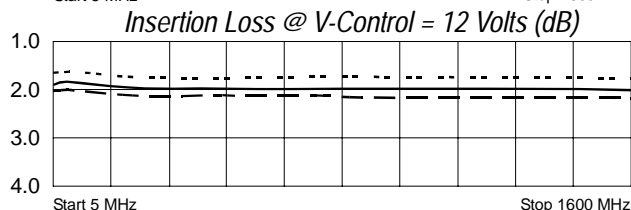
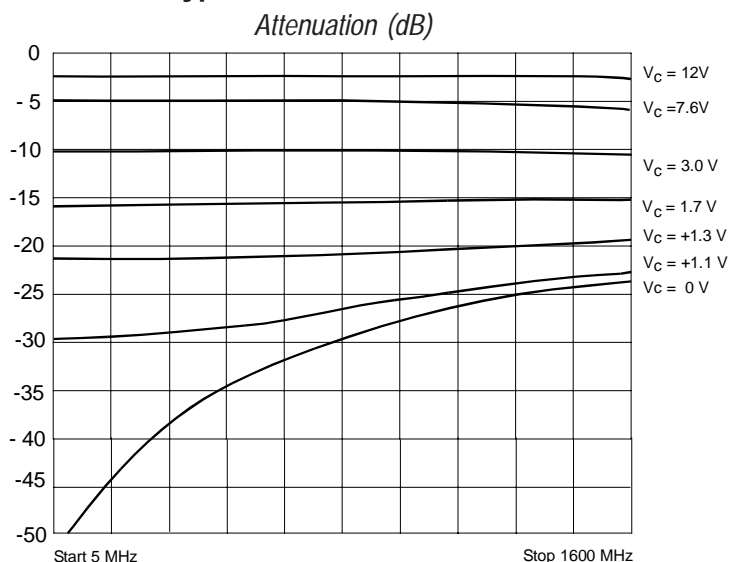
Note: Care should always be taken to effectively ground the case of each unit.



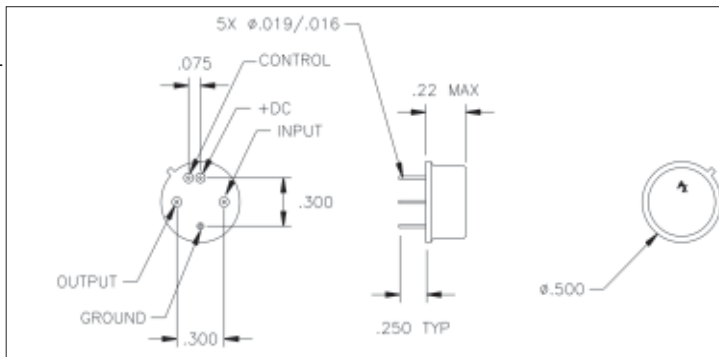
### Maximum Ratings

Ambient Operating Temperature ..... -55 °C to + 100 °C  
 Storage Temperature ..... -62 °C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 15 Volts  
 Continuous RF Input Power ..... + 20 dBm  
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 1 Watt (3 µsec Max.)

### Typical Performance Data



### Mechanical Outline



Legend ——— + 25 °C    - - - - + 85 °C    - - - - - - - - - - -55 °C



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