

RF Attenuator

Low Insertion Loss

Model TG9006

www.DataSheet4U.com

5 to 1600 MHz

Features

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

Specifications

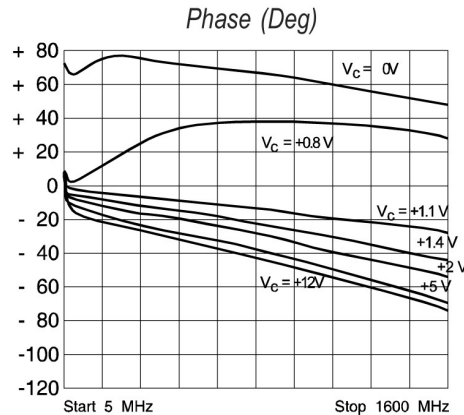
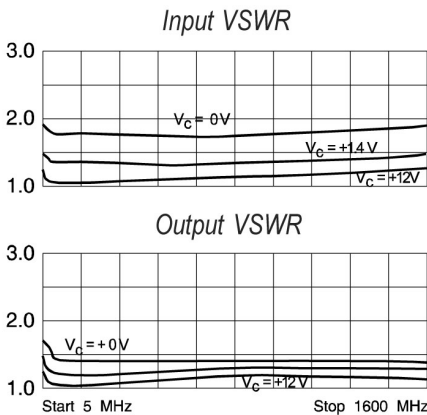
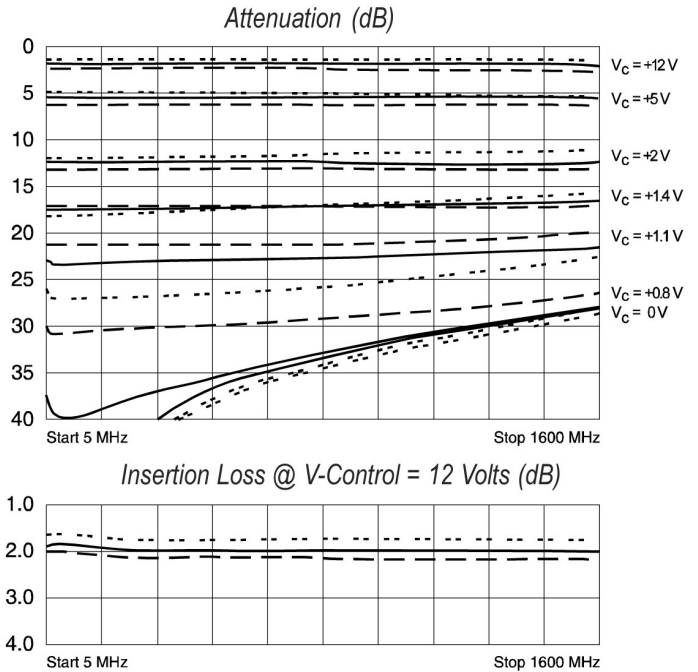
| CHARACTERISTIC | TYPICAL Ta= 25 °C | MIN/MAX Ta = -55 °C to +85 °C |
|-------------------------------|----------------------|----------------------------------|
| Frequency (MHz) | 5 - 1600 MHz | 5 - 1600 MHz |
| Insertion Loss (Vc=15) | | |
| 5-500 MHz | 2.0 | 2.3 Max. |
| 5-1000 MHz (dB) | 2.2 | 2.5 Max. |
| 5-2000 MHz | 2.5 | 3.5 Max. |
| Max Attenuation | | |
| 5-500 MHz | 33 | 31 Min. |
| 5-1000 MHz (dB) | 27 | 25 Min. |
| 5-2000 MHz | 23 | 18 Min. |
| VSWR (Worst Case) | | |
| 5-500 MHz | 1.75:1 | 2.0:1 Max. |
| 5-1000 MHz (dB) | 1.75:1 | 2.0:1 Max. |
| 5-2000 MHz | 2.2:1 | 2.5:1 Max. |
| Flatness over Freq. | | |
| 5-500 MHz | ±0.15 | ±0.25 Max. |
| 5-1000 MHz (dB) | ±0.5 | ±1.0 Max. |
| 5-2000 MHz | ±0.7 | ±1.5 Max. |
| Bias Power | Vdc | |
| | mA | |
| | +12 | +12 |
| | 5.5 | 10 Max. |
| Control Power | Vdc | |
| | mA | |
| | 0 to +12 | 0 to +12 |
| | 6.5 | 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 + 18 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



Packaging Options (see Appendix)

TG9006, 5 Pin TO-8 (T5)
 TNG9006, 4 Pin Surface Mount (SM3)
 BXG9006, Connectorized Housing (H6)

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

