

RF Attenuator

Low Insertion Loss

Model TG9005

0.1 to 1400 MHz

www.DataSheet4U.com

Features

- 0.1 MHz to 1400 MHz Typical
- 31 dB Attenuation Range
- Operating Temp. - 55 °C to + 85 °C
- Screening to the tables of MIL-STD-883 available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	0.1 - 1400 MHz	0.1 - 1400 MHz
Insertion Loss (Vc = 15)	2.0 dB	2.5 dB Max.
Max Attenuation 5-500 MHz 5-1400 MHz	31 dB 26 dB	30 dB Min. 25 dB Min.
VSWR (Worst Case) 5-500 MHz 500-1400 MHz	<1.5:1 <1.6:1	1.8:1 Max. 2.0:1 Max.
Flatness over Freq. 0.1-1400 MHz (dB)	±0.2	±0.5 Max.
Bias Power Vdc mA	+15 10	+18 12 Max.
Control Power Vdc mA	0 to +15 0 to 6	0 to +15 0 to 7.5

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

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

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.)

Packaging Options (see Appendix)

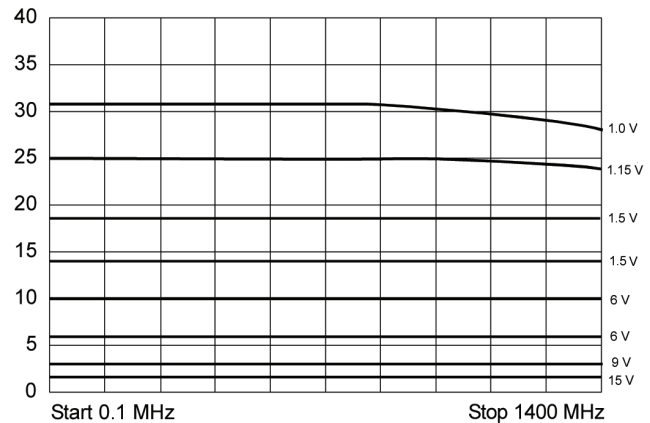
TG9005, 5 Pin TO-8 (T5)

TNG9005, 4 Pin Surface Mount (SM3)

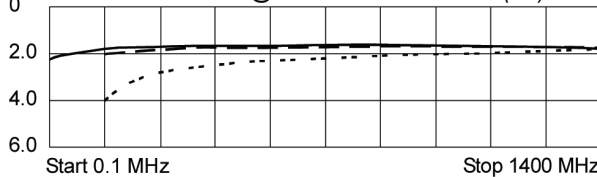
BXG9005, Connectorized Housing (H6)

Typical Performance Data

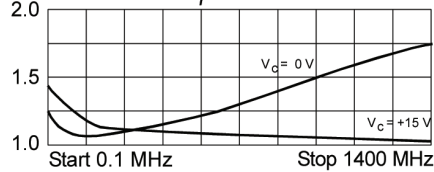
Attenuation (dB)



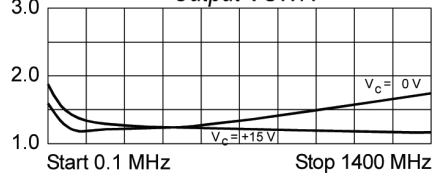
Insertion Loss @ V-Control = +15 Volts (dB)



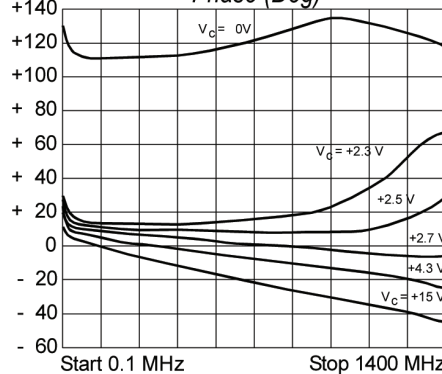
Input VSWR



Output VSWR



Phase (Deg)



Distortion Products (dBc) vs. Attenuation @ 500 MHz

