RF ATTENUATOR MODEL *TG9001*

Available as: TG9001, 5 Pin TO-8 (T5)
TNG9001, 4 Pin Surface Mount (SM3)
BXG9001, Connectorized Housing (H6)

Features

- 5 MHz to 2000 MHz
- Low Insertion Loss
- High Third Order Intercept:+39 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency (MHz)	5 - 2000 MHz	5 - 2000 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	2.2:1 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	+15	+15
mA	5.5	10 Max.
Control Power Vdc	0 to +15	0 to +15
mA	5.5	0 to 7 Max.
Switching Speed (µsec) 10% to 90%	40	60 Max.

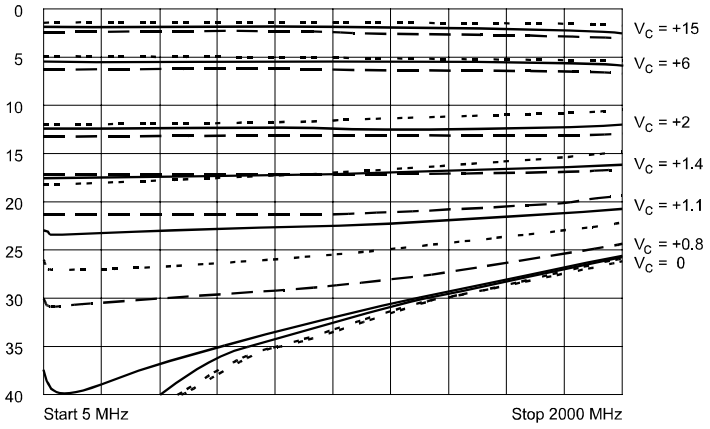
Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

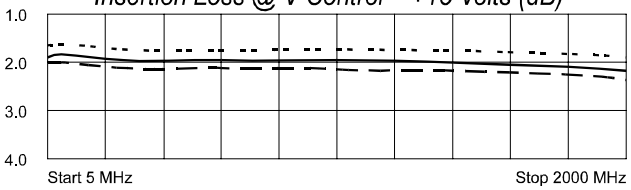
Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 Volts
Continuous RF Input Power ..... + 20 dBm
Short Term RF Input Power... 200 Milliwatts (1 Minute Max.)
Maximum Peak Power..... 0.2 Watt (3 µsec Max.)

Typical Performance Data

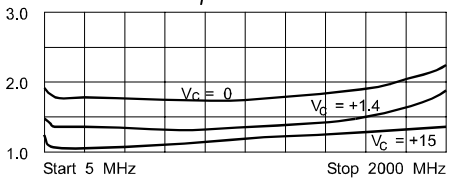
Attenuation (dB)



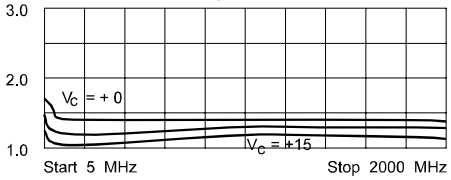
Insertion Loss @ V-Control = +15 Volts (dB)



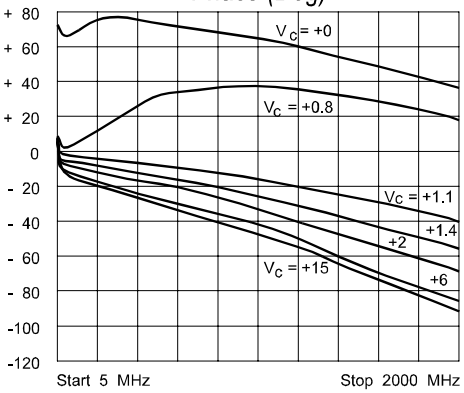
Input VSWR



Output VSWR



Phase (Deg)



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

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