

RF Attenuator

Negative Control Voltage: 0 to -10 Volts

Model TG9015

5 to 1000 MHz

www.DataSheet4U.com

Features

- Negative Control Voltage: 0 to -10 Volts
- Greater than 20 dB Attenuation
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = 0 °C to +50 °C	
Frequency	5 - 1000 MHz	5 - 1000 MHz	
Insertion Loss (Vc=0V) 5-500 MHz 500-1000 MHz (dB)	1.5	2.0	Max.
	2.0	2.5	Max.
Max Attenuation (dB) (Vc = -10V)	20	15	Min.
VSWR (worst Case In Attenuation Range)	In Out <1.5:1 <1.75:1	2.0:1	Max.
		2.0:1	Max.
Flatness over Freq.	±0.5 dB	±0.75 dB Max.	
Switching Speed (ms) 10% to 90%	0.5	0.75	Max.
Bias Power Vdc mA	+ 15 7	+ 15	Max.
		10	
Control Power Vdc mA	0 to -10 0 to 7	0 to -10	Max.
		0 to 10	

Maximum (No Damage) Ratings

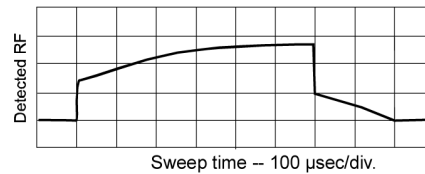
Ambient Operating Temperature -55°C to + 125 °C
 Storage Temperature -62°C to + 150 °C
 Case Temperature + 150 °C
 DC Voltage + 18 Volts
 Control Voltage -15 Volts
 Continuous RF Input Power +23 dBm

Packaging Options (see Appendix)

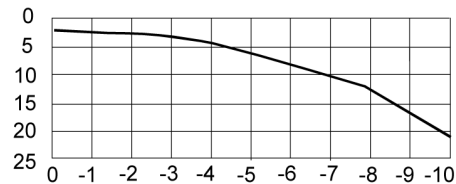
TG9015, 5 Pin TO-8 (T5)
 TNG9015, 4 Pin Surface Mount (SM3)
 BXG9015, Connectorized Housing (H6)

Typical Performance Data @ 25° C

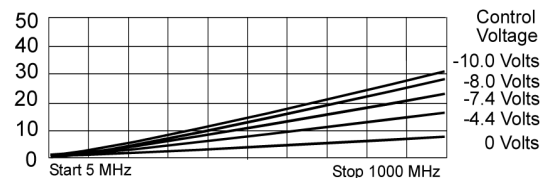
Switching Time Control Pulse = 0 to -10 V.
f = 500 Mhz



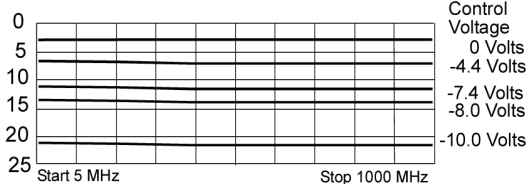
Attenuation (dB) vs. Control Voltage



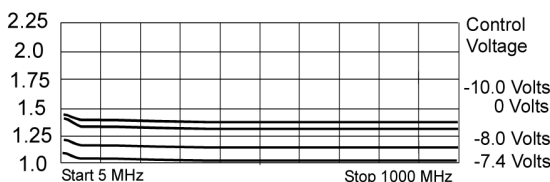
Phase (Deg)



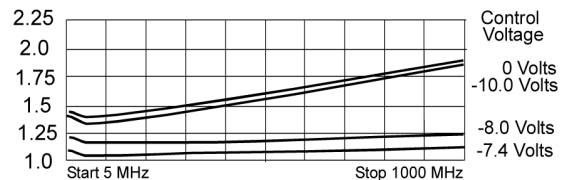
Attenuation



Input VSWR



Output VSWR



Legend ——— + 25 °C - - - - + 50 °C - - - - - 0 °C

