

RF Attenuator

Attenuation Range: 40 dB to 1000 MHz

Model TG9030

100 to 2000 MHz

Features

- 100 MHz to 2000 MHz Typical
- 40 dB Attenuation Range to 1000 MHz
- 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)	100 - 2000 MHz	300 - 2000 MHz
Insertion Loss (Vc = 15)		
100-500 MHz	<2.2	4.0 Max.
500-1000 MHz (dB)	<1.8	3.0 Max.
1000-2000 MHz	<2.0	2.5 Max.
Max Attenuation		
100-500 MHz	<45	40 Min.
500-1000 MHz (dB)	<40	35 Min.
1000-2000 MHz	<30	20 Min.
VSWR (Worst Case)		
100-300 MHz	2.0:1	3.0:1 Max.
300-2000 MHz	<2.5:1	
Output		
100-300 MHz	<2.0:1	2.0:1 Max.
300-2000 MHz	<1.75:1	
Flatness over Freq.		
5-500 MHz	±0.5	±3.0 Max.
5-1000 MHz (dB)	±1	±2.0 Max.
Bias Power	Vdc	
mA	+15	+15
	8	10 Max.
Control Power	Vdc	
mA	0 to +15	0 to +15
	0 to 6.5	0 to 10 Max.
Switching Speed (nsec)	<200	400 Max.
10% to 90%		

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

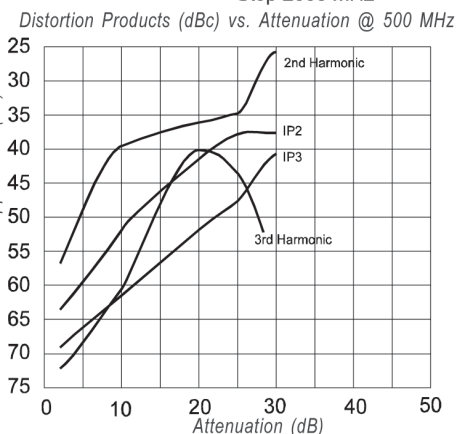
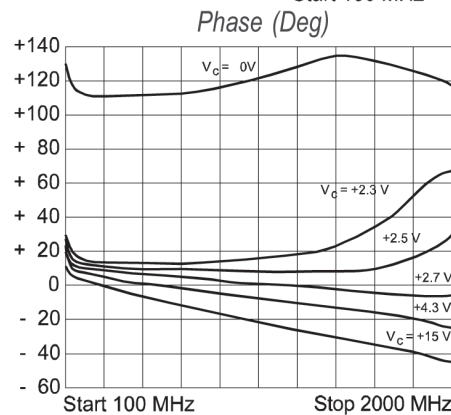
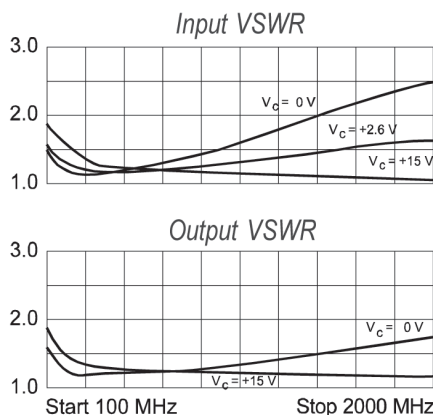
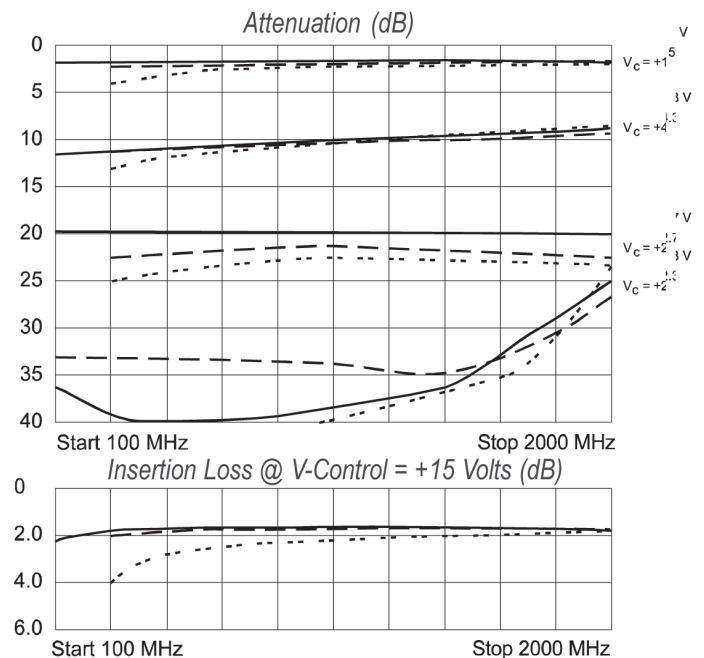
Maximum Ratings

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.)

Packaging Options (see Appendix)

TG9030, 5 Pin TO-8 (T5)
 TNG9030, 4 Pin Surface Mount (SM3)
 BXG9030, Connectorized Housing (H6)

Typical Performance Data



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