

GC2002

5 TO 2000 MHz TO-8 VOLTAGE CONTROLLED ATTENUATOR MODULE

Typical Values	GC2002
Switching Speed (10 - 90%)	2 μ sec
(0 - 100%)	< 75 μ sec
Attenuation Range	> 25 dB
Low SWR	1.6:1
Excellent Flatness vs. Frequency	\pm 0.5
Standard Size TO-8 Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed		
		0 to 50 °C	-55 to +85 °C	
Frequency Range		5-2100 MHz	5-2000 MHz	5-2000 MHz
Attenuation (Min.)				
5-500 MHz	36 dB	31 dB	30 dB	
5-1000 MHz	30 dB	25 dB	24 dB	
5-2000 MHz	23 dB	20 dB	18 dB	
Insertion Loss (Max.)				
5-500 MHz	1.5 dB	2.0 dB	2.8 dB	
5-1000 MHz	2.0 dB	2.5 dB	3.0 dB	
5-2000 MHz	2.5 dB	3.0 dB	3.8 dB	
SWR (Max.)				
Input/Output				
5-500 MHz	1.6:1	2.0:1	2.0:1	
5-1000 MHz	1.6:1	2.0:1	2.0:1	
5-2000 MHz	1.7:1	2.2:1	2.2:1	
Flatness vs. Freq. (Max.) (Attenuation to 15 dB)				
5-1000 MHz	< \pm 0.5 dB	< \pm 1.0 dB	< \pm 1.2 dB	
5-2000 MHz	< \pm 1.0 dB	< \pm 1.5 dB	< \pm 1.7 dB	
Switching Speed (Max.)				
10 - 90%	2.0 μ sec	4.0 μ sec	—	
0 - 100%	75 μ sec	125 μ sec	—	
Bias Current (Max.)	8 mA	10 mA	12 mA	
Control Voltage	0 to +15 V	0 to +15 V	0 to +15 V	
Control Current (Max.)	5 mA	7 mA	7 mA	

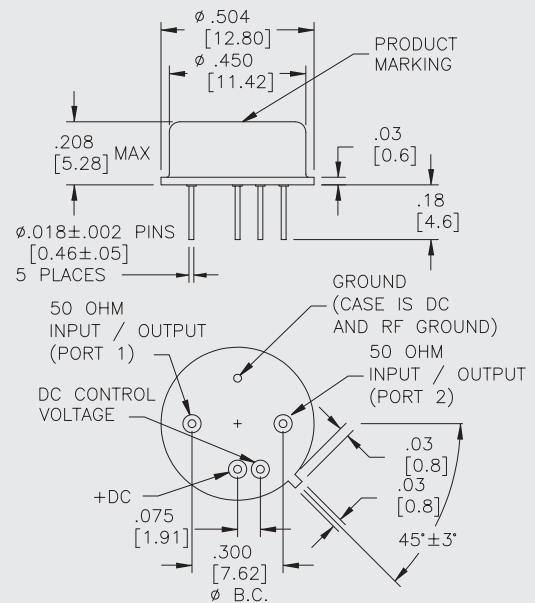
* Measured in a 50-ohm system at +5 Vdc bias.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+9 Volts
Maximum Continuous RF Input Power	200 Milliwatts
Maximum Peak Power (3 μ sec Max.)	1.0 Watt
Burn-in Temperature	+125 °C

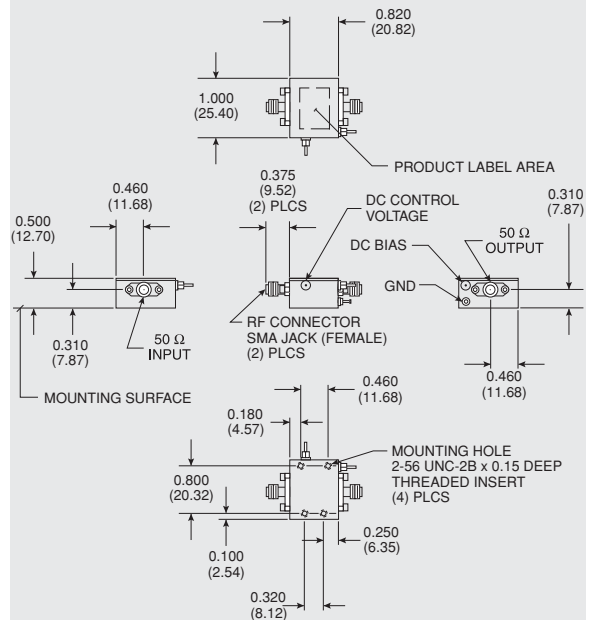
GC2002

TO-8 Package for Attenuators



GC2002

TO-8 SMA Attenuator Case



DIMENSIONS ARE IN INCHES [MILLIMETERS]