Voltage Variable Absorptive Attenuator
DC - 5 GHz

AT-202

V 2.00

Features

- Fast Switching Speed, 4 ns Typical
- Ultra Low Dc Power Consumption
- Small Package Size, 0.180" (4.6mm) Sq

Guaranteed Specifications *

(From -55°C to +85°C)

Frequency Range		DC - 5 GHz
Insertion Loss	DC - 5 GHz	2.0 dB Max
	DC - 3 GHz	1.5 dB Max
	DC - 2 GHz	1.5 dB Max
VSWR	DC - 5 GHz	2.0:1 dBMax
	DC - 3 GHz	1.5:1 dB Max
	DC - 2 GHz	1.5:1 dB Max
Attenuation	DC - 4 GHz	20 dB Max
	DC - 5 GHz	18 dB Max
Flatness	*DC - 5 GHz	2.5 dB Max
(Peak to Peak)	DC - 3 GHz	1.5 dB Max
	DC - 2 GHz	1.0 dB Max
Attenuation vs. Temperature	0 to 10 dB Att.	±0.6 dB
	20 dB Att.	±2.5 dB

* To 15 dB attenuation

Operating Characteristics

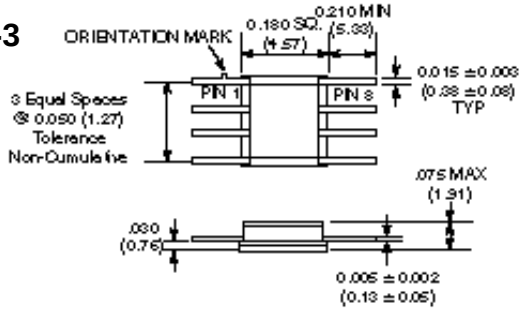
Impedance			50 Ohms Nominal
Switching Characteristics			
Trise, Tfall (10% to 90%)			4 ns Typ
Ton, Toff (50% C+L to 90%/10% RF)			8 ns Typ
Transients (in band)			10 mv Typ
Input Power for 1 dB Compression			
Attenuation Level	0 dB	20 dB	
.05 GHz to 5 GHz	+16	+11	dBm Typ
Intermodulation Intercept Point (for two-tone input power up to +5 dBm)			
Intercept Points	IP2	IP3	
.05 GHz to 5 GHz	+25	+13	dBm Typ
Control Voltages			
A Input (Shunt FETS)			-1.5 to -4V @ 100 µAMax
B Input (Series FETS)			0 to -4V @ 100 µAMax
Environmental			
See Appendix for MIL-STD-883 screening option.			

* All specifications apply with 50 ohm connected to all RF ports.
† Faster switching speed can be achieved with enhanced driver waveform. Switching speed is measured between 20 dB and 2 dB attenuation levels.

Ordering Information

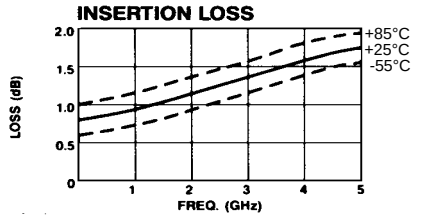
Model No.	Package
AT-202 PIN	Ceramic

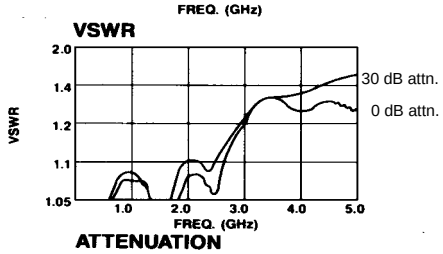
CR-3

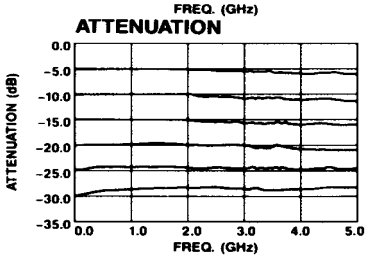


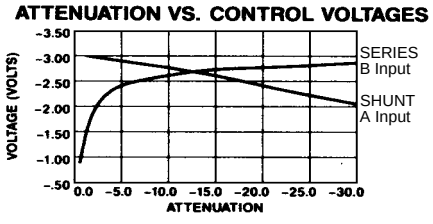
Dimensions in ( ) are in mm.
Bottom of Case is AC Ground.

Typical Performance









Pin Configuration