

Voltage Variable Absorptive Attenuator

DC - 5 GHz

AT-201

V 2.00

Features

- Miniature Ceramic Package
- Fast Switching Speed, 4 ns Typical
- Ultra Low DC Power Consumption

Guaranteed Specifications *

(From -55°C to +85°C)

Frequency Range	DC - 5 GHz	
Insertion Loss	DC - 5 GHz	2.5 dB Max
	DC - 3 GHz	1.3 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 (Peak to Peak)	*DC - 5 GHz	2.5 dB Max
	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 -4 V @ 100 μ A Max
B Input (Series FETS)	0 to -4 V @ 100 μ A Max

Environmental

See Appendix for MIL-STD-883 screening option.

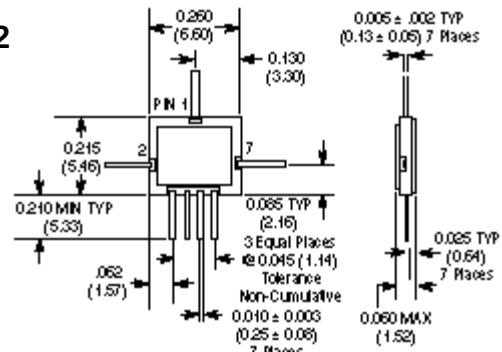
* All specifications apply with 50 ohm connected to all RF ports.

† Faster switching speed can be achieved with enhanced driver waveform.
Switching speed is measured between 20 dB and 2 dB attenuation levels.

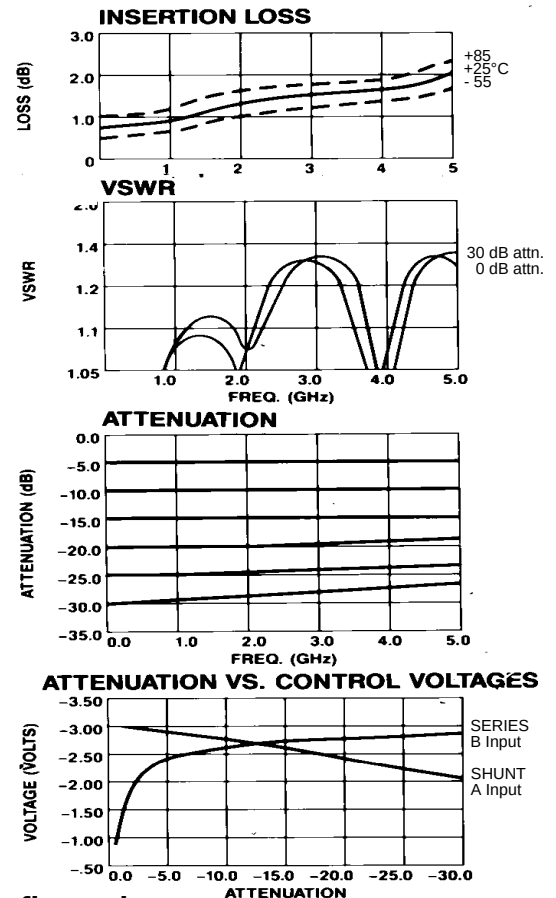
Ordering Information

Model No.	Package
AT-201 PIN	Ceramic

CR-2



Typical Performance



Pin Configuration

