

AT-339

SO-14

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14-Lead SOP outline dimensions
Narrow body .150
(All dimensions per JEDEC No. MS-012-AB, Issue C)
Dimensions in () are in mm.

Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)
 .xx = ± 0.02 (.x = ± 0.5)

Electrical Specifications, T_A = 25°C

Parameter	Test Conditions ²	Unit	Min.	Typ.	Max
Insertion Loss	DC – 0.1 GHz	dB		0.6	0.9
	DC – 0.5 GHz	dB		0.8	1.1
	DC – 1.0 GHz	dB		1.2	1.4
	DC – 2.0 GHz	dB		1.3	1.5
Flatness (peak to peak)	DC – 2.0 GHz	20 dB Attenuation	dB	+/-0.5	+/-0.8
		30 dB Attenuation	dB	+/-1.5	+/-1.8
		40 dB Attenuation	dB	+/-5.0	+/-5.5
VSWR (Matched)				1.5:1	
Trise, Tfall Ton, Toff Transients	10% to 90% RF, 90% to 10% RF	nS		18	
	50% Control to 90% RF, 50% Control to 10% RF	nS		35	
	In Band	mV		20	
One dB Compression Point	Input Power (over atten. range)	0.05 GHz		21	
	Input Power (over atten. range)	0.5 – 2.0 GHz	dBm	27	
2nd Order Intercept	Measured Relative (over atten. range)	0.05 GHz	dBm	39	
	to Input Power (for two-tone input power up to +5 dBm)	0.5 – 2.0 GHz	dBm	49	
3rd Order Intercept	Measured Relative (over atten. range)	0.05 GHz	dBm	30	
	to Input Power (for two-tone input power up to +5 dBm)	0.5 – 2.0 GHz	dBm	38	

1. Refer to "Tape and Reel Packaging" Section, or contact factory.
2. All measurements at 1 GHz in a 50Ω system, unless otherwise specified.
The A and B control voltages vary 0 to -4 volts @ 20 μA typ.

Model No.

Package

SOIC 14 Lead
Forward Tape & Reel
Reverse Tape & Reel

Specifications Subject to Change Without Notice

Voltage Variable Absorptive Attenuator, 40 dB

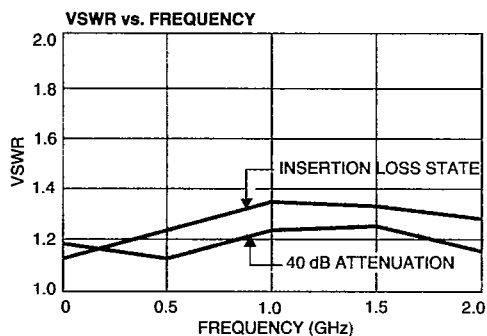
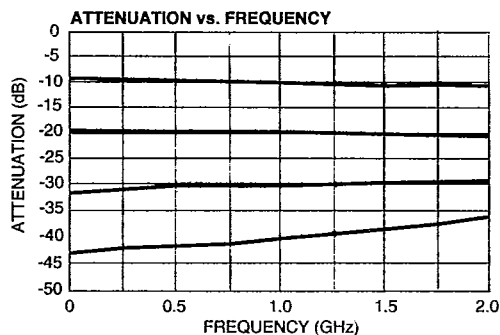
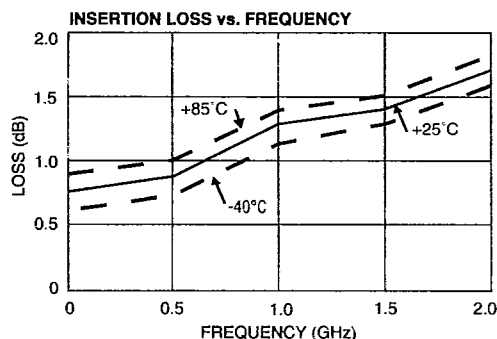
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Absolute Maximum Ratings

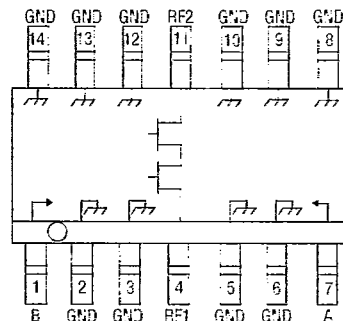
Parameter	Absolute Maximum ¹
Max. Input Power	
50 MHz	+27 dBm
500-2000 MHz	+30 dBm
Control Voltage	+5V, -8.5V
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C

Note: 1. Operation of this device above any one of these parameters may cause permanent damage

Typical Performance

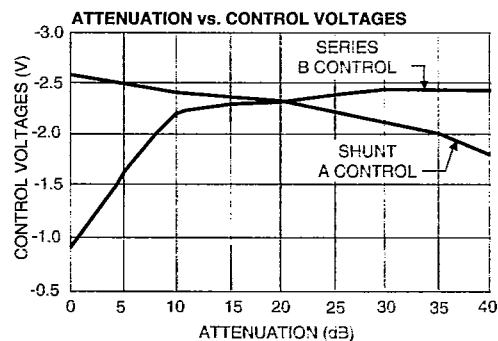


Functional Schematic

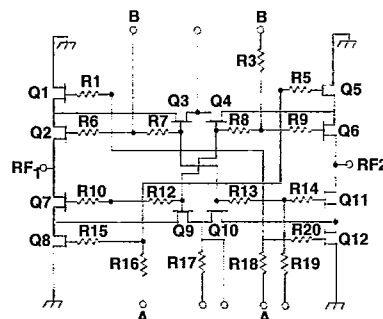


Pin Configuration

Pin No.	Description	Pin No.	Description
1	B	8	GND
2	GND	9	GND
3	GND	10	GND
4	RF1	11	RF2
5	GND	12	GND
6	GND	13	GND
7	A	14	GND



Electrical Schematic



Specifications Subject to Change Without Notice

M/A-COM Inc. ■ 1011 Pawtucket Boulevard, Lowell, MA 01853 USA

■ Telephone: 800-366-2266