# **Fixed Attenuator**

### DC to 7000 MHz $50\Omega$ **1W** 7dB

### **Maximum Ratings**

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

### Permanent damage may occur if any of these limits are exceeded.

### **Features**

• wideband, DC to 7000 MHz

• impedance match improvement

- excellent VSWR, through entire band
- miniature size

**Applications** 

• power leveling

· aqueous washable

Generic photo used for illustration purposes only

CASE STYLE: AF320

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



### Pin Connections

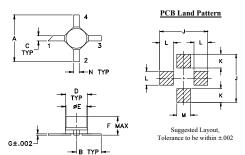
INPUT	11_
OUTPUT	3
GROUND	2,4

### Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER	
		DC-1	DC-2.5	DC-f <sub></sub>	DC-1	DC-2.5	DC-f <sub></sub>	(W)
f <sub>L-</sub> -f <sub>U</sub>	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-7000	7±0.3	0.4	0.6	1.3	1.3	1.4	1.5	1

<sup>1.</sup> BF power at 25°C case temperature: 1 Watt. Derate linearly to 0.1 Watt at 100°C.

### **Outline Drawing**



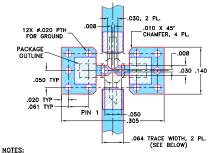
### Outline Dimensions (inch)

<b>A</b>	B	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
. <b>200</b>	.100	. <b>020</b>	. <b>070</b>	. <b>068</b>	. <b>057</b>	. <b>005</b>
5.08	2.54	0.51	1.78	1.73	1.45	0.13
H 	J .230 5.84	<b>K</b> . <b>065</b> 1.65	L .060 1.52	.080	N .040 1.02	wt grams 0.04

### **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
50.00	7.09	1.17
796.25	7.19	1.18
1542.50	7.28	1.21
2288.75	7.37	1.22
3035.00	7.55	1.22
3781.25	7.47	1.20
4527.50	7.48	1.17
5273.75	7.63	1.15
6020.00	7.85	1.17
7015.00	8.17	1.23

### Demo Board MCL P/N: TB-319 Suggested PCB Layout (PL-208)

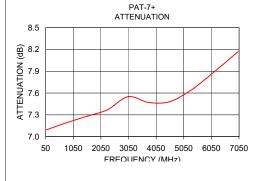


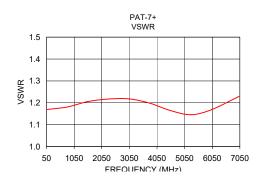
- NULES:

  1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC
  THICKNESS .030" ± .002"; COPPER: 1/2 0Z. EACH SIDE.
  FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

  DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK
  OVER BARE COPPER)
  - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK





- Notes

  A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

  B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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