# **Fixed Attenuator**

DC to 7000 MHz  $50\Omega$ 12dB 1W

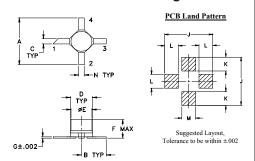
# **Maximum Ratings**

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if an	y of these limits are exceeded.

#### Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4

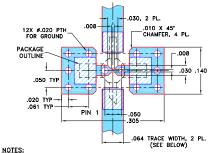
# **Outline Drawing**



### Outline Dimensions (inch)

<b>G</b> .005 0.13	F .057 1.45	<b>E</b> . <b>068</b> 1.73	<b>D</b> . <b>070</b> 1.78	<b>C</b> . <b>020</b> 0.51	B .100 2.54	<b>A</b> . <b>200</b> 5.08
wt grams	N .040	M 080.	.060	K .065	J .230	H 
0.04	1.02	2.03	1.52	1.65	5.84	

#### 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

#### **Features**

- wideband, DC to 7000 MHz
- excellent VSWR, through entire band
- miniature size
- · aqueous washable

# **Applications**

- power leveling
- impedance match improvement



CASE STYLE: AF320 PRICE: \$2.95 ea. QTY (10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

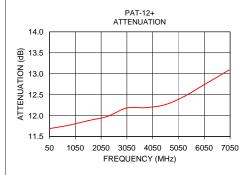
# Electrical Specifications at 25°C

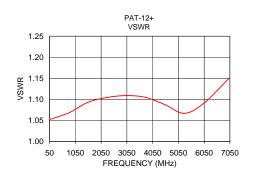
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.		VSWR (:1) Max.			MAX. INPUT POWER		
f <sub>1.</sub> -f <sub>11</sub>		DC-1	DC-2.5	DC-f <sub>u</sub>	DC-1	DC-2.5	DC-f <sub>U</sub>	(W)
'L- 'U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-7000	12±0.6	0.5	0.6	1.8	1.3	1.4	1.5	1

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

# **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
50.00	11.69	1.05
796.25	11.77	1.07
1542.50	11.88	1.09
2288.75	11.98	1.10
3035.00	12.18	1.11
3781.25	12.19	1.10
4527.50	12.26	1.09
5273.75	12.46	1.07
6020.00	12.73	1.09
7015.00	13.09	1.15







For detailed performance specs & shopping online see web site

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