Miniature Surface Mount **Fixed Attenuator**

DC to 2500 MHz 10dB **50**Ω 0.5W

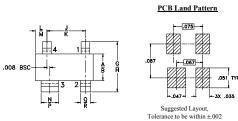
Maximum Ratings

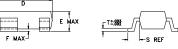
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if a	iny of these limits are exceeded.

Pin Connections

INPUT	4
OUTPUT	2
GROUND	1,3

Outline Drawing

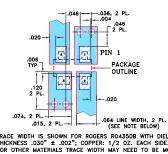




Outline Dimensions (inch)

K	J	Н	G	F	Е	D	С	В	А
.080	.070	.104	.083	.005	.047	.120	.105	.055	.045
2.03	1.78	2.64	2.11	0.13	1.19	3.05	2.67	1.40	1.14
wt		Т	S	R	Q	Р	N	М	L
grams		.005	.023	.021	.015	.036	.030	.024	.018
0.01		0.13	0.58	0.53	0.38	0.91	0.76	0.61	0.46

Demo Board MCL P/N: TB-39 Suggested PCB Layout (PL-225)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4550B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES FCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, DC to 2500 MHz
- excellent VSWR, through entire band
- miniature size, SOT143 package
- aqueous washable

Applications

- cellular
- PCS ISM
- VHF/UHF





CASE STYLE: MMM168

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



Electrical Specifications at 25°C

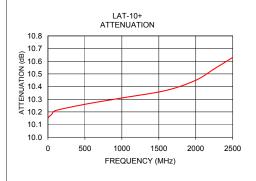
FREQ. RANGE (MHz)		ATTENUATION (dB) Flatness, Max.		VSWR (:1) Max.			MAX. INPUT POWER ¹	
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)
f _{L-} -f _U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-2500	10±0.5	0.3	0.5	0.8	1.3	1.4	1.5	0.5

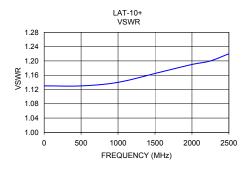
1. RF power at 25°C case temperature: 1/2Watt. Derate linearly to 0.2 Watt at 85°C.

2. Flatness= variation over band divided by 2

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)			
1.00	10.15	1.13			
10.00	10.16	1.13			
50.00	10.18	1.13			
100.00	10.21	1.13			
500.00	10.26	1.13			
1000.00	10.31	1.14			
1600.00	10.37	1.17			
2000.00	10.45	1.19			
2250.00	10.54	1.20			
2500.00	10.63	1.22			







For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine The Design Engineers Search Engineers Search Engine The Design Engineers Se IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.