

Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 5dB DC to 2500 MHz

LAT-5+



CASE STYLE: MMM168
PRICE: \$1.95 ea. QTY (10-49)

Maximum Ratings

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

Pin Connections

INPUT	4
OUTPUT	2
GROUND	1,3

Features

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

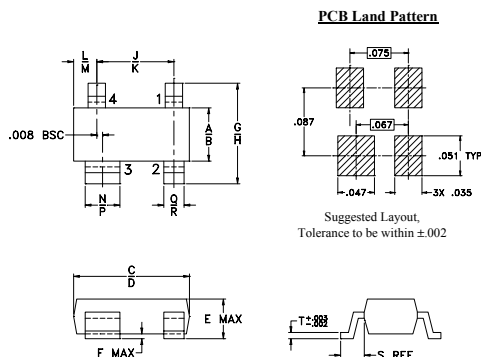
Applications

- cellular
- PCS
- ISM
- VHF/UHF

+ 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.

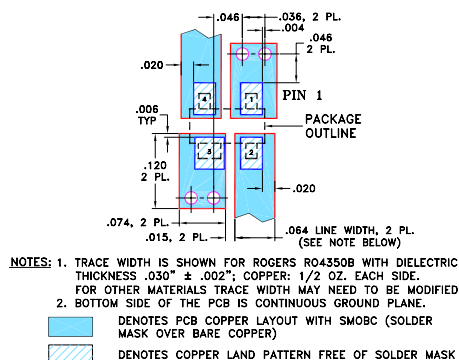
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080	
1.14	1.40	2.67	3.05	1.19	0.13	2.11	2.64	1.78	2.03	
L	M	N	P	Q	R	S	T			wt
.018	.24	.030	.036	.015	.021	.023	.005			grams
0.46	6.10	0.76	0.91	0.38	0.53	0.58	0.13			0.01

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



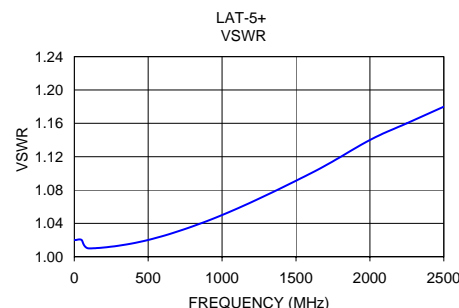
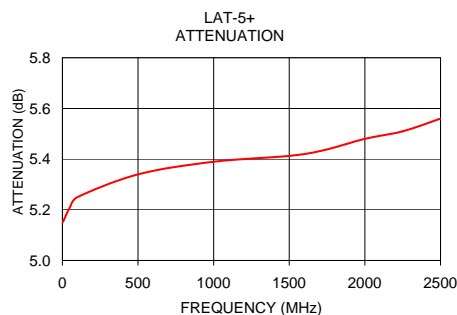
Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER ¹ (W)	
	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz		
f _L -f _U	Norm.							
DC-2500	5±0.3	0.3	0.4	0.7	1.3	1.3	1.5	0.5

1. RF power at 25°C case temperature: ½ Watt. 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	5.15	1.02
10.00	5.16	1.02
50.00	5.21	1.02
100.00	5.25	1.01
500.00	5.34	1.02
1000.00	5.39	1.05
1600.00	5.42	1.10
2000.00	5.48	1.14
2250.00	5.51	1.16
2500.00	5.56	1.18



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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.

For detailed performance specs
& shopping online see web site

REV. E
M108294
LAT-5+
090813