

Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 15dB DC to 2500 MHz

LAT-15+



Generic photo used for illustration purposes only

CASE STYLE: MMM168

+RoHS Compliant

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



Available Tape and Reel
at no extra cost

Reel Size Devices/Reel
7" 3000

Maximum Ratings

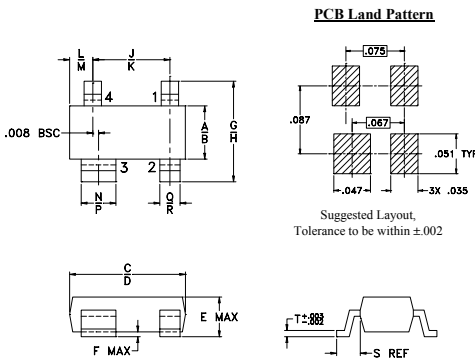
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

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

Pin Connections

INPUT	4
OUTPUT	2
GROUND	1,3

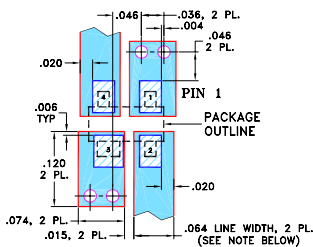
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080	
L	M	N	P	Q	R	S	T			wt
.018	.024	.030	.036	.015	.021	.023	.005			grams
0.46	0.61	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)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. 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

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document 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

Features

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

Applications

- cellular
- PCS
- ISM
- VHF/UHF

Electrical Specifications at 25°C

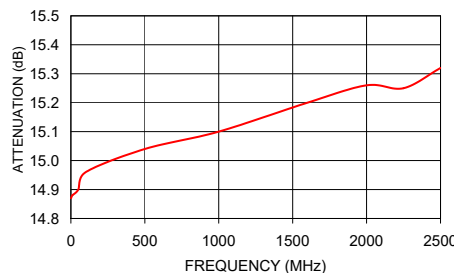
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.	VSWR (:1) Max.			MAX. INPUT POWER ¹ (W)
		DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	
f_L - f_U	Norm.	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	
DC-2500	15±0.8	1.3	1.4	1.6	0.5

1. RF power at 25°C case temperature: ½Watt. 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	14.87	1.06
10.00	14.88	1.06
50.00	14.90	1.06
100.00	14.96	1.05
500.00	15.04	1.05
1000.00	15.10	1.07
1600.00	15.20	1.13
2000.00	15.26	1.16
2250.00	15.25	1.18
2500.00	15.32	1.21

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ATTENUATION



LAT-15+
VSWR

