

Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 0dB DC to 2500 MHz

LAT-0+



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

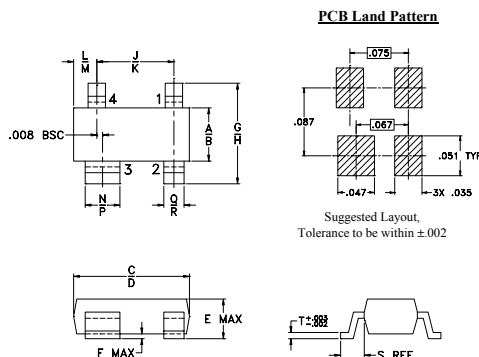
Features

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

Applications

- cellular
- PCS
- ISM
- VHF/UHF

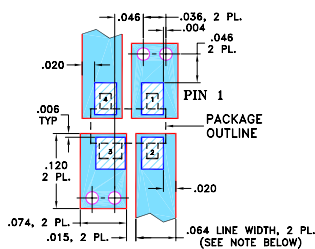
Outline Drawing



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	.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

- 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-Circuit's 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

Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB)			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	
DC-2500	0+0.15	0.3	0.4	1.2	1.3	1.5	0.5

1. RF power at 25°C case temperature: 1/2 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	0.02	1.00
10.00	0.02	1.01
50.00	0.03	1.01
100.00	0.04	1.01
500.00	0.14	1.03
1000.00	0.15	1.05
1600.00	0.20	1.10
2000.00	0.23	1.16
2250.00	0.25	1.21
2500.00	0.33	1.24

