

Fixed Attenuator

50Ω 0.5W 4dB DC to 2500 MHz

Maximum Ratings

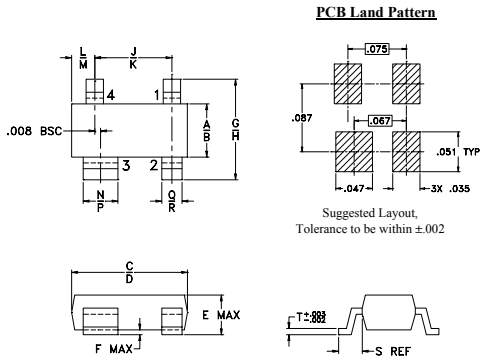
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

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

Pin Connections

INPUT	4
OUTPUT	2
GROUND	1,3

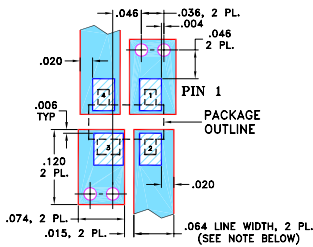
Outline Drawing





Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080
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: 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

Features

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

Applications

- cellular
- PCS
- ISM
- VHF/UHF

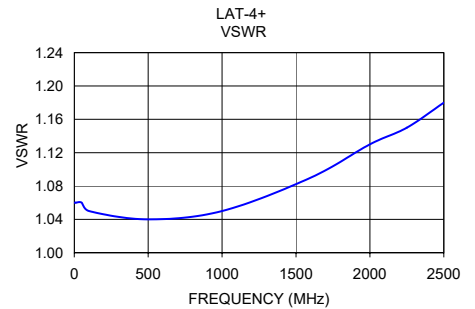
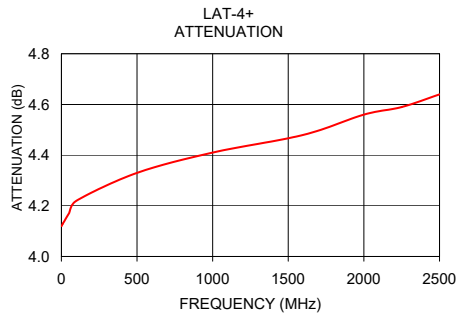
Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.				VSWR (:1) Max.			MAX. INPUT POWER ¹ (W)
	Nom.	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	Nom.							
DC-2500	4±0.3	0.3	0.4	0.7	1.2	1.3	1.5	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	4.12	1.06
10.00	4.13	1.06
50.00	4.17	1.06
100.00	4.22	1.05
500.00	4.33	1.04
1000.00	4.41	1.05
1600.00	4.48	1.09
2000.00	4.56	1.13
2250.00	4.59	1.15
2500.00	4.64	1.18



Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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REV. F
M151107
LAT-4+
200815



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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

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