Miniature Surface Mount

Fixed Attenuator

50Ω 0.5W 10dB DC to 2500 MHz

LAT-10+

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

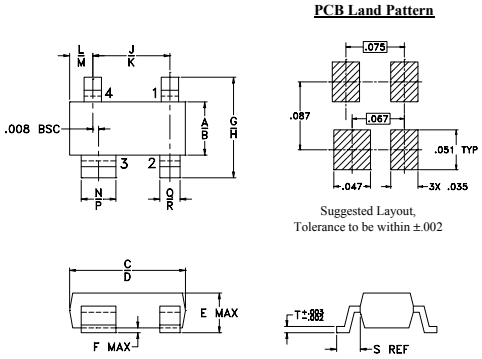
Features

- 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

Electrical Specifications at 25°C

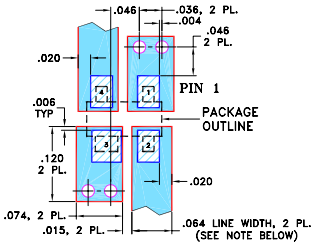
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.				VSWR (:1) Max.			MAX. INPUT POWER [1] (W)
f_L-f_U	Nom.	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	
DC-2500	10±0.5	0.3	0.5	0.8	1.3	1.4	1.5	0.5

1. RF power at 25°C case temperature: 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	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

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

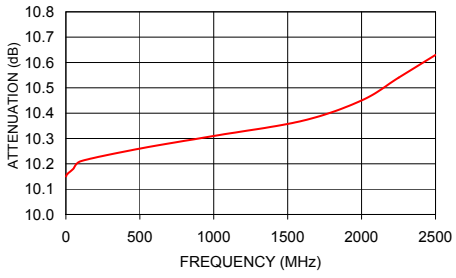


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

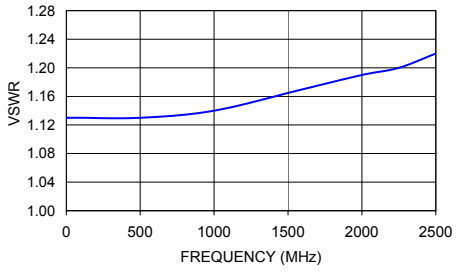
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

LAT-10+
ATTENUATION



LAT-10+
VSWR



REV. F
M151107
LAT-10+
150812