Miniature Surface Mount

Fixed Attenuator

DC to 2500 MHz 15dB 50Ω 0.5W

Features

• wideband, DC to 2500 MHz

• aqueous washable

Applications

• cellular

• excellent VSWR, through entire band

• miniature size, SOT143 package

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

+ 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.

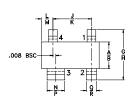
Maximum Ratings

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

Pin Connections

INPUT	4
OUTPUT	2
GROUND	1,3

PCB Land Pattern



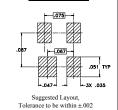




Outline Dimensions (inch)

.080	.070	H . 104 2.64	.083	.005	.047	.120	.105	.055	.045
		T .005	S	R	Q	Р	N	М	
0.01		0.13	0.58	0.53	0.38	0.91	0.76	6.10	0.46

Outline Drawing

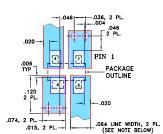




Α	В	С	D	Е	F	G	Н	J	K
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080
1.14	1.40	2.67	3.05	1.19	0.13	2.11	2.64	1.78	2.03
L	M	N	Р	Q	R	S	Т		wt
.018	.24	.030	.036	.015	.021	.023	.005	9	grams
0.46	6.10	0.76	0.91	0.38	0.53	0.58	0.13		0.01

Demo Board MCL P/N: TB-39

Suggested PCB Layout (PL-225)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY MEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

PCS • ISM VHF/UHF

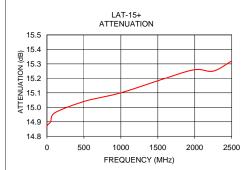
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.		VSWR (:1) Max.			MAX. INPUT POWER ¹		
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)
f _{L-} -f _U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-2500	15±0.8	0.3	0.5	0.9	1.3	1.4	1.6	0.5

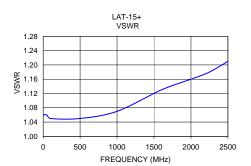
Electrical Specifications at 25°C

- 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





For detailed performance specs & shopping online see web site

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 minicipcuits.com IF/RF MICROWAVE COMPONENTS