Miniature Surface Mount

Fixed Attenuator

DC to 2500 MHz 50Ω 0.5W 0dB

Maximum Ratings

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

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



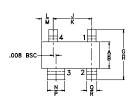
CASE STYLE: MMM168 PRICE: \$1.95 ea. QTY (10-49)

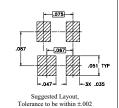
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Outline Drawing

PCB Land Pattern









Outline Dimensions (inch)

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

Electrical Specifications at 25°C

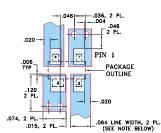
FREQ. RANGE (MHz)		ATTENUATION (dB) Flatness, Max.		VSWR (:1) Max.			MAX. INPUT POWER ¹	
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)
f _L -f _U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-2500	0+0.15	0.3	0.4	0.6	1.2	1.3	1.5	0.5

- 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

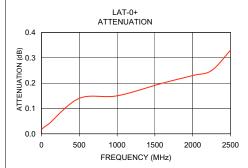
Demo Board MCL P/N: TB-39 Suggested PCB Layout (PL-225)

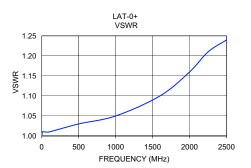


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS ROA350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY MEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK









M108294 LAT-0+ 070518