Miniature Surface Mount

Fixed Attenuator

LAT-30+

0.5W DC to 2500 MHz 30dB 50Ω

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 1000 MHz
- excellent VSWR, through entire band
- miniature size, SOT143 package
- aqueous washable

Applications

- cellular
- PCS
- ISM VHF/UHF

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

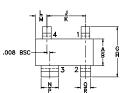
CASE STYLE: MMM168

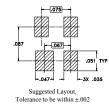
PRICE: \$1.95 ea. QTY (10-49)

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





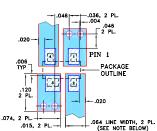




Outline Dimensions (inch)

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		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

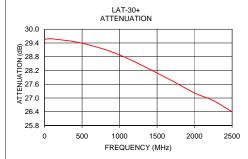
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER ¹	
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)
f _L f _U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-1000	30±1.7	0.5	1.2	_	1.2	1.3	_	0.5

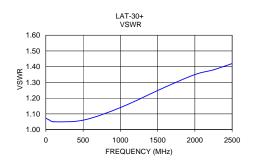
Electrical Specifications at 25°C

- 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	29.56	1.07					
	10.00	29.56	1.07					
	50.00	29.58	1.06					
	100.00	29.58	1.05					
	500.00	29.39	1.06					
	1000.00	28.88	1.14					
	1600.00	27.92	1.27					
	2000.00	27.22	1.35					
	2250.00	26.89	1.38					
	2500.00	26.40	1.42					
1								







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