Miniature Surface Mount

Fixed Attenuator

30dB

-55°C to 85°C

-55°C to 100°C



CASE STYLE: MMM168 PRICE: \$1.95 ea. QTY (20)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Pin Connections

Maximum Ratings

Operating Temperature

Storage Temperature

 50Ω

INPUT	4
OUTPUT	2
GROUND	1.3

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

0.5W

Features

• wideband, DC to 1000 MHz

DC to 1000 MHz

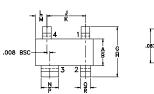
- excellent VSWR, through entire band
- miniature size, SOT143 package
- aqueous washable

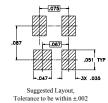
Applications

- cellular
- ISM
- VHF/UHF

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	.024	.018
0.01		0.13	0.58	0.53	0.38	0.91	0.76	0.61	0.46

- PCS

Electrical Specifications at 25°C

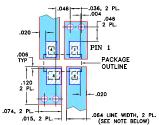
FREQ. RANGE (MHz)		ATTENUATION (dB) Flatness, Max.		VSV (:1 Ma	MAX. INPUT POWER ¹	
		DC-0.5	DC-1	DC-0.5	DC-1	(W)
f _L -f _U	Nom.	GHz	GHz	GHz	GHz	
DC-1000	30±1.7	0.5	1.2	1.2	1.3	0.5

- 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)
0.50	30.07	1.04
100.00	30.08	1.04
200.00	30.13	1.04
300.00	30.21	1.06
400.00	30.33	1.08
500.00	30.48	1.09
650.00	30.78	1.11
750.00	31.04	1.13
850.00	31.32	1.14
1000.00	31.87	1.17

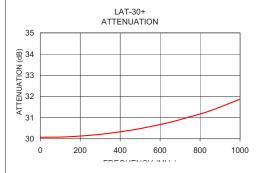
Demo Board MCL P/N: TB-39 Suggested PCB Layout (PL-225)

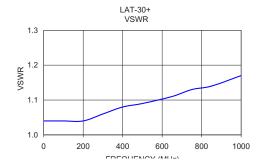


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY MEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK





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 tapplicable established test performance criteria and measurement instructions.

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