Miniature Surface Mount

Fixed Attenuator



Generic photo used for illustration purposes only

CASE STYLE: MMM168

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



DC to 2500 MHz 50Ω 1dB 0.5W

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

• aqueous washable

• wideband, DC to 2500 MHz • excellent VSWR, through entire band

• miniature size, SOT143 package

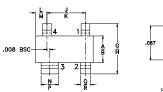
- PCS
- ISM

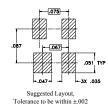
Applications

- cellular
- VHF/UHF

Outline Drawing

PCB Land Pattern









Outline Dimensions (inch)

K	J	Н	G	F	E	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
wt grams			_	.021	_				
		.005	.023		.015	.036	.030	.024	.018

Features

Electrical Specifications at 25°C

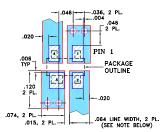
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER ¹	
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)
f _L -f _U	Nom.	GHz	GHz	GHz	GHz	GHz	GHz	
DC-2500	1±0.3	0.3	0.4	0.7	1.2	1.3	1.5	0.5

- 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	1.05	1.09			
10.00	1.07	1.08			
50.00	1.09	1.08			
100.00	1.13	1.08			
500.00	1.19	1.06			
1000.00	1.22	1.06			
1600.00	1.24	1.14			
2000.00	1.30	1.18			
2250.00	1.32	1.20			
2500.00	1.31	1.23			

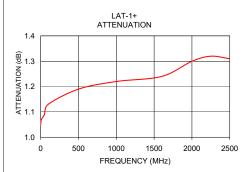
Demo Board MCL P/N: TB-39 Suggested PCB Layout (PL-225)

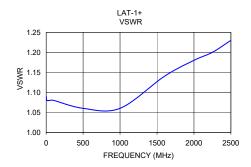


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY MEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK





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