

Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 6dB DC to 2500 MHz

LAT-6+



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

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.*

Applications

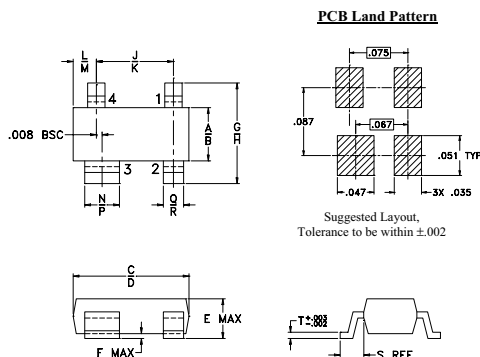
- cellular
- PCS
- ISM
- VHF/UHF

Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER ¹ (W)	
	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz		
f _L -f _U	Norm.							
DC-2500	6±0.3	0.3	0.4	0.7	1.3	1.4	1.5	0.5

1. RF power at 25°C case temperature: ½ Watt. Derate linearly to 0.2 Watt at 85°C.
2. Flatness= variation over band divided by 2

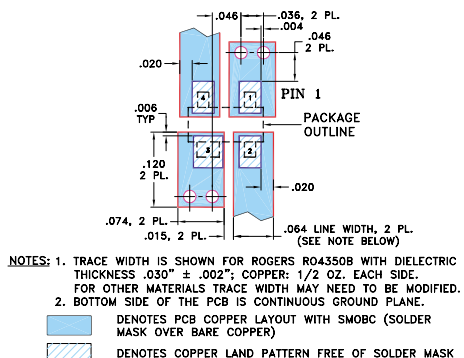
Outline Drawing



Outline Dimensions (inch)

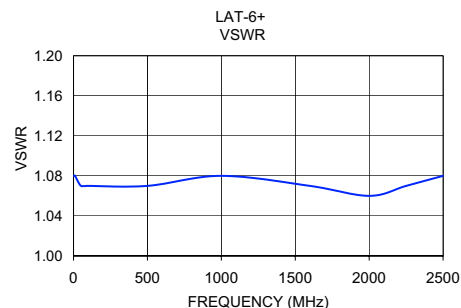
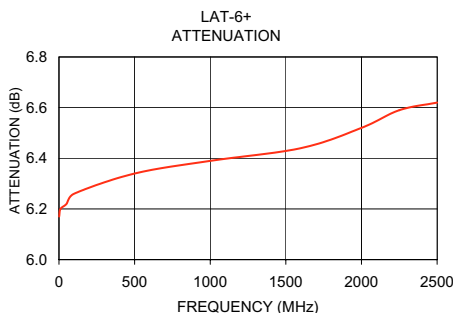
A	B	C	D	E	F	G	H	J	K
.045	.055	.105	.120	.047	.005	.083	.104	.070	.080
1.14	1.40	2.67	3.05	1.19	0.13	2.11	2.64	1.78	2.03
L	M	N	P	Q	R	S	T	wt	
.018	.24	.030	.036	.015	.021	.023	.005	grams	
0.46	6.10	0.76	0.91	0.38	0.53	0.58	0.13	0.01	

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



Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
1.00	6.17	1.08
10.00	6.20	1.08
50.00	6.22	1.07
100.00	6.26	1.07
500.00	6.34	1.07
1000.00	6.39	1.08
1600.00	6.44	1.07
2000.00	6.52	1.06
2250.00	6.59	1.07
2500.00	6.62	1.08



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RF/IF MICROWAVE COMPONENTS

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