

# Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 20dB DC to 2500 MHz

LAT-20+  
LAT-20



## 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

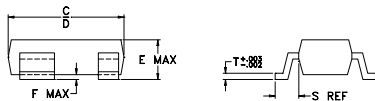
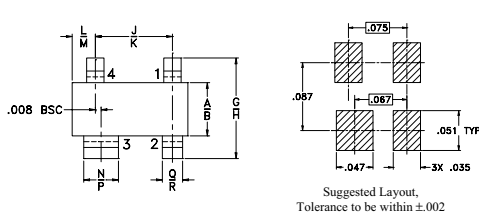
PRICE: \$1.95 ea. QTY (10-49)

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

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

## Outline Drawing

PCB Land Pattern



## Outline Dimensions (inch/mm)

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	

## Electrical Specifications at 25°C

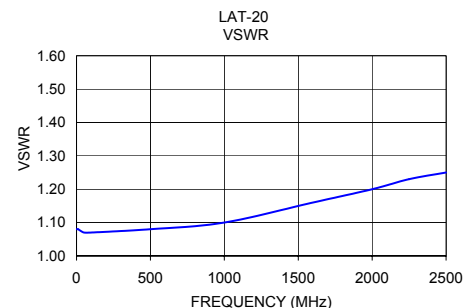
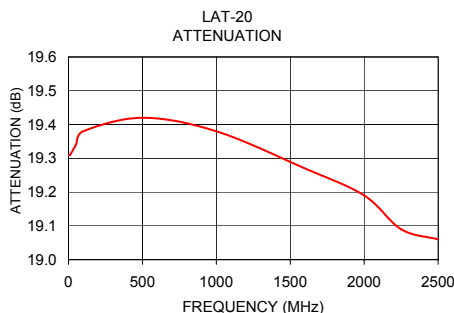
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.			VSWR (:1) Max.			MAX. INPUT POWER <sup>1</sup> (W)	
	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz	DC-0.5 GHz	DC-1 GHz	DC-2.5 GHz		
f <sub>L</sub> -f <sub>U</sub>	Nom.							
DC-2500	20±1.5	0.3	0.5	0.9	1.3	1.4	1.6	0.5

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

## Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
1.00	19.31	1.08
10.00	19.31	1.08
50.00	19.34	1.07
100.00	19.38	1.07
500.00	19.42	1.08
1000.00	19.38	1.10
1600.00	19.27	1.16
2000.00	19.19	1.20
2250.00	19.09	1.23
2500.00	19.06	1.25



designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K1-LAT	36	4 of ea. LAT-3(+), 6(+), 10(+), 15(+), 20(+) 2 of ea. LAT-1(+), 2(+), 4(+), 5(+), 7(+), 8(+), 9(+), 12(+)	59.95

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