

Miniature Surface Mount Fixed Attenuator

50Ω 0.5W 9dB DC to 2500 MHz

LAT-9+
LAT-9



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

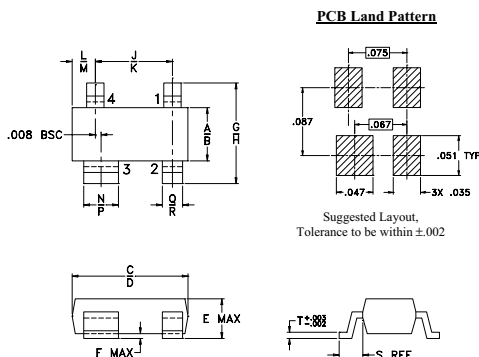
CASE STYLE: MMM168

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



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 | |

Electrical Specifications at 25°C

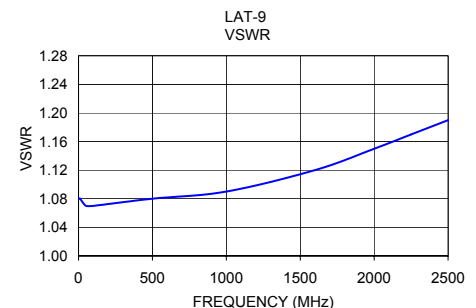
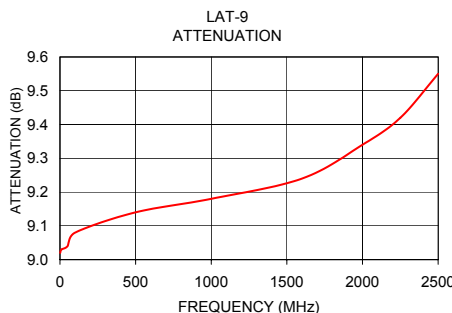
| FREQ. RANGE (MHz) | ATTENUATION (dB) Flatness, Max. | | | VSWR (:1) Max. | | | MAX. INPUT POWER ¹ (W) |
|--------------------------------|---------------------------------------|-------------|---------------|----------------------|-------------|---------------|--|
| | DC-0.5 GHz | DC-1 GHz | DC-2.5 GHz | DC-0.5 GHz | DC-1 GHz | DC-2.5 GHz | |
| f _L -f _U | Norm. | | | | | | |
| DC-2500 | 9±0.4 | 0.3 | 0.5 | 0.8 | 1.3 | 1.4 | 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 | 9.02 | 1.08 |
| 10.00 | 9.03 | 1.08 |
| 50.00 | 9.04 | 1.07 |
| 100.00 | 9.08 | 1.07 |
| 500.00 | 9.14 | 1.08 |
| 1000.00 | 9.18 | 1.09 |
| 1600.00 | 9.24 | 1.12 |
| 2000.00 | 9.34 | 1.15 |
| 2250.00 | 9.42 | 1.17 |
| 2500.00 | 9.55 | 1.19 |



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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