

Fixed Attenuator

cuits 50Ω 0.5 W 3 dB DC to 2.5 GHz

FEATURES

- Wideband, DC to 2.5 GHz
- Excellent VSWR Through Entire Band
- Miniature Size, SOT143 Package
- Aqueous Washable

APPLICATIONS

- Cellular
- PCS
- ISM
- VHF/UHF



LAT-3+

Generic photo used for illustration purposes only CASE STYLE: MMM168

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		2.5	GHz
Attenuation, Nominal			3±0.3		dB
	DC - 0.5			0.3	
Attenuation, Flatness ¹	DC - 1			0.4	dB
	DC - 2.5			0.7	
	DC - 0.5			1.2	
VSWR	DC - 1			1.3	:1
	DC - 2.5			1.5	
Input Power ²				0.5	W

1. Flatness = variation over band divided by 2.

2. RF power at +25°C case temperature: $\frac{1}{12}$ Watt. Derate linearly to 0.2 Watt at +85°C.

ABSOLUTE MAXIMUM RATINGS

Parameter	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.

REV. G ECO-024218 LAT-3+ MCL NY 250113



Fixed Attenuator



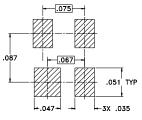
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50Ω $\,$ 0.5 W $\,$ 3 dB $\,$ DC to 2.5 GHz $\,$

OUTLINE DRAWING

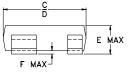
INPUT 4 OUTPUT 2 GROUND 1,3

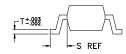
PAD CONNECTIONS



PCB Land Pattern

Suggested Layout, Tolerance to be within ±.002



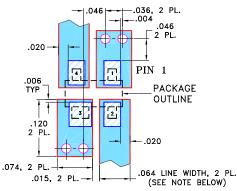


OUTLINE DIMENSIONS (Inch)

А	В	С	D	E	F	G	н	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	М	Ν	Р	0	R	S	т		wt
						0			vvi
.018	.024	.030	.036			-	-	ç	grams

TAPE & REEL INFORMATION: F8



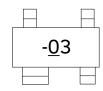


NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

PRODUCT MARKING



Marking may contain other features or characters for internal lot control

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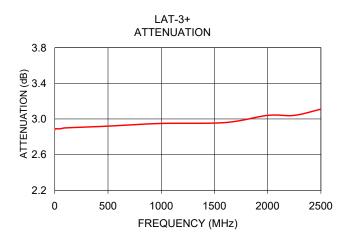
LAT-3+

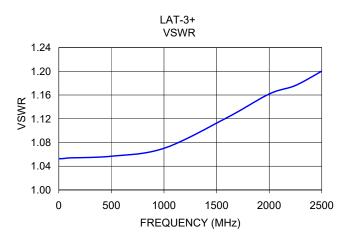
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TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
1.00	2.88	1.05
10.00	2.89	1.05
50.00	2.89	1.05
100.00	2.90	1.05
500.00	2.92	1.06
1000.00	2.95	1.07
1600.00	2.96	1.12
2000.00	3.04	1.16
2250.00	3.04	1.18
2500.00	3.11	1.20





NOTES

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' applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and

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