# Miniature Surface Mount **Fixed Attenuator**

#### DC to 2500 MHz 2dB**50**Ω 0.5W

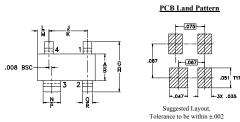
#### **Maximum Ratings**

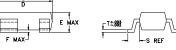
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if any	of these limits are exceeded.

#### **Pin Connections**

INPUT	4
OUTPUT	2
GROUND	1,3

### **Outline Drawing**

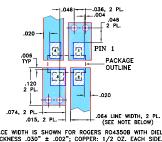




#### Outline Dimensions (inch)

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	Ν	М	L
wt grams			-		_	P .036			_
		.005	.023	.021	.015		.030	.024	.018





NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4550B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES FCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

Notes

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

#### Features

- wideband, DC to 2500 MHz
- excellent VSWR, through entire band
- miniature size, SOT143 package
- aqueous washable

#### **Applications**

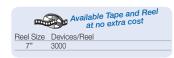
- cellular
- PCS
- ISM
- VHF/UHF





CASE STYLE: MMM168

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



#### Electrical Specifications at 25°C

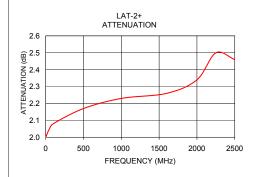
FREQ. RANGE (MHz)		(	NUATION dB) atness, Max		VSWR (:1) Max.			(:1) INPU Max. POWE			
		DC-0.5	DC-1	DC-2.5	DC-0.5	DC-1	DC-2.5	(W)			
f <sub>L-</sub> -f <sub>U</sub>	Nom.	GHz	GHz	GHz	GHz	GHz	GHz				
DC-2500	2±0.3	0.3	0.4	0.7	1.2	1.3	1.5	0.5			

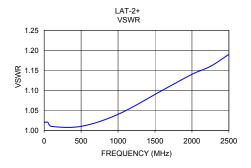
1. RF power at 25°C case temperature: 1/2Watt. Derate linearly to 0.2 Watt at 85°C.

2. Flatness= variation over band divided by 2

#### **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)			
1.00	1.99	1.02			
10.00	2.01	1.02			
50.00	2.05	1.02			
100.00	2.08	1.01			
500.00	2.17	1.01			
1000.00	2.23	1.04			
1600.00	2.26	1.10			
2000.00	2.34	1.14			
2250.00	2.50	1.16			
2500.00	2.46	1.19			





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 Nini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuit standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits tables contained therein.

## Mini-Circuits

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