

Coaxial

## Fixed Attenuator

50Ω 1W 1dB DC to 2000 MHz

HAT-1+



Generic photo used for illustration purposes only

CASE STYLE: FF747

Connectors	Model
BNC Male-BNC Female	HAT-1+

**+RoHS Compliant**

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

## Maximum Ratings

Operating Temperature	-45°C to 100°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if any of these limits are exceeded.	

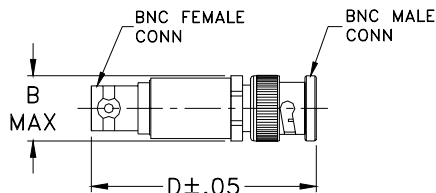
## Features

- excellent VSWR, 1.05:1 typ.
- excellent flatness, 0.15 dB typ. to 2000 MHz
- usable to 4000 MHz

## Applications

- PCS
- instrumentation
- cellular

## Outline Drawing



## Outline Dimensions (inch/mm)

B	D	wt
.62	1.94	grams
15.75	49.28	30.0

## Electrical Specifications

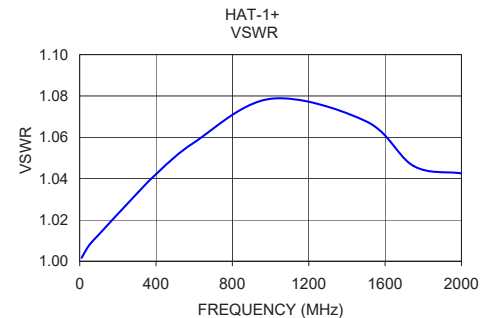
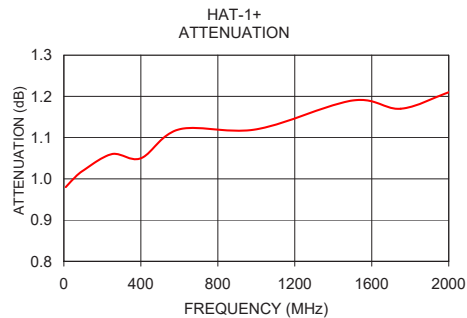
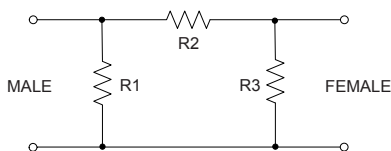
FREQ. RANGE (MHz)	ATTENUATION (dB)					VSWR (:1)			MAX. INPUT POWER (W)
	Flatness*					DC-0.5 GHz	DC-1 GHz	DC-2 GHz	
$f_L - f_U$	Nom.	Typ.	Typ.	Typ.	Total Band Max.	Typ.	Typ.	Typ.	
DC-2000	1±0.2	0.05	0.10	0.15	0.25	1.05	1.10	1.10	1.0

\* Flatness = variation over band divided by 2.

## Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	0.98	1.00
50.00	1.00	1.01
100.00	1.02	1.01
250.00	1.06	1.03
400.00	1.05	1.04
600.00	1.12	1.06
1000.00	1.12	1.08
1500.00	1.19	1.07
1750.00	1.17	1.05
2000.00	1.21	1.04

## Electrical Schematic



## 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-Circuit's 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 benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

[www.minicircuits.com](http://www.minicircuits.com) P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

 REV. G  
 M151107  
 EDR-5087/13  
 HAT-1+  
 RVN/LC/CP/AM  
 200520

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mini-Circuits:](#)

[HAT-1+](#)