

# Coaxial Fixed Attenuator

## HAT-10+

50Ω 1W 10dB DC to 2000 MHz

### 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.



CASE STYLE: FF747

Connectors	Model	Price	Qty.
BNC Male-BNC Female	HAT-10+	9.95 ea.	(1-9)

**+RoHS Compliant**

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

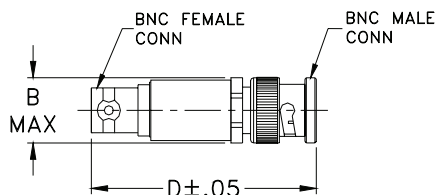
### Features

- excellent VSWR, 1.05:1 typ.
- excellent flatness, 0.10 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

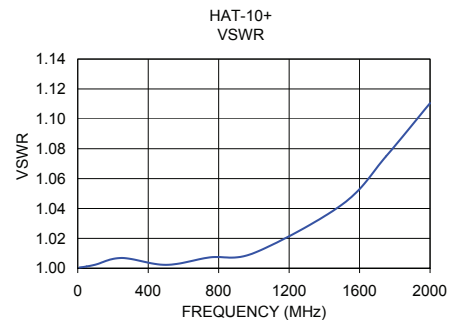
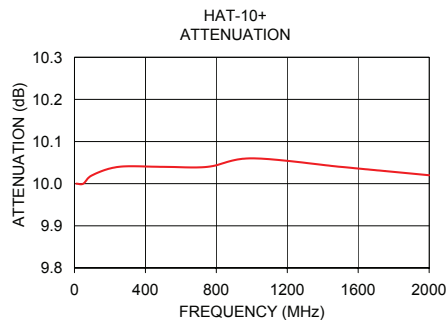
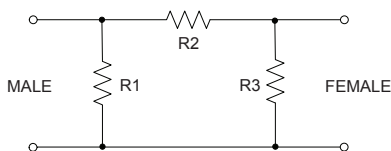
FREQ. RANGE (MHz)	ATTENUATION (dB)					VSWR (:1)			MAX. INPUT POWER (W)
	Flatness*					DC-0.5 GHz	DC-1 GHz	DC-2 GHz	
	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	Total Band Typ.	Typ.				
$f_L-f_U$	Nom.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	
DC-2000	10±0.2	0.05	0.10	0.10	0.25	1.05	1.10	1.10	1.0

\* Flatness = variation over band divided by 2.

### Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	10.00	1.00
50.00	10.00	1.00
100.00	10.02	1.00
250.00	10.04	1.01
500.00	10.04	1.00
750.00	10.04	1.01
1000.00	10.06	1.01
1500.00	10.04	1.04
1750.00	10.03	1.07
2000.00	10.02	1.11

### Electrical Schematic



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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)

