$50\Omega$ 

# **Fixed Attenuator**

20dB

**HAT-20+** 



CASE STYLE: FF747

Connectors Model BNC Male-BNC Female HAT-20+

#### +RoHS Compliant

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

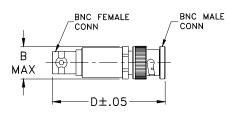
### **Maximum Ratings**

Operating Temperature -45°C to 100°C Storage Temperature -55°C to 100°C

0.5W

Permanent damage may occur if any of these limits are exceeded

#### **Outline Drawing**



## Outline Dimensions (inch )

В D wt .62 1.94 grams 15.75 49.28 30.0

#### • usable to 4000 MHz

**Features** 

DC to 2000 MHz

excellent flatness, 0.25 dB typ. to 2000 MHz

• excellent VSWR, 1.05:1 typ.

- **Applications** • instrumentation
- cellular

#### **Electrical Specifications**

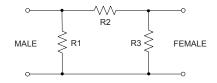
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness*						MAX. INPUT POWER		
		DC-0.5 GHz	DC-1 GHz	DC-2 GHz	Total Band	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	(W)
f <sub>L</sub> f <sub>U</sub>	Nom.	Тур.	Typ.	Typ.	Тур.	Тур.	Тур.	Тур.	
DC-2000	20±0.2	0.05	0.15	0.25	0.40	1.05	1.10	1.15	0.5

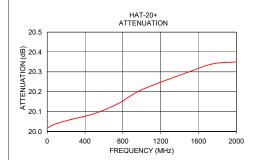
<sup>\*</sup> Flatness = variation over band divided by 2.

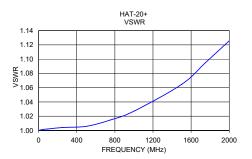
#### **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	20.02	1.00
50.00	20.03	1.00
100.00	20.04	1.00
250.00	20.06	1.00
500.00	20.09	1.01
750.00	20.14	1.01
1000.00	20.21	1.03
1500.00	20.30	1.06
1750.00	20.34	1.09
2000.00	20.35	1.13

### **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-Circuits tapplicable 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

### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Attenuators - Interconnects category:

Click to view products by Mini-Circuits manufacturer:

Other Similar products are found below:

R411803119	R413806115	R413808000	R413810115	R413850115	R414510000	R414701000	R415303000	BNC-13 R41	11800121
R411801121	R412412124	R412450000	R413800000	R413805000	R413830000	R413840115	R414730000	R415420000	R415703000
R416010000	R420003110	R411801000	R411815121	R413305000	R413801000	R414520000	R411808121	R412500124	R412414124
R412501124	HMC-C584	R413802000	R412400124	R411700124	R417310130	R411801119	R412419124	R411703124	R412401124
R443131000	R417130110	R414700000	R414505000	R411802119	R417720128	R420706110	R413811000	R413803115	R414501000