Coaxial

Fixed Attenuator

HAT-20+

50Ω 0.5W 20dB DC to 2000 MHz

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

Permanent damage may occur if any of these limits are exceeded.

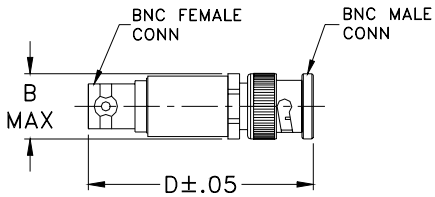
Features

- excellent VSWR, 1.05:1 typ.
- excellent flatness, 0.25 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

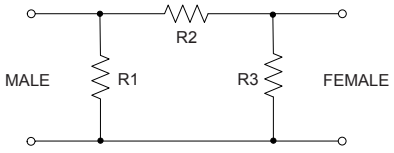
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness*					VSWR (:1)			MAX. INPUT POWER (W)
		DC-0.5 GHz	DC-1 GHz	DC-2 GHz	Total Band Typ.	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	
f_L-f_U	Nom.	Typ.	Typ.	Typ.		Typ.	Typ.	Typ.	
DC-2000	20±0.2	0.05	0.15	0.25	0.40	1.05	1.10	1.15	0.5

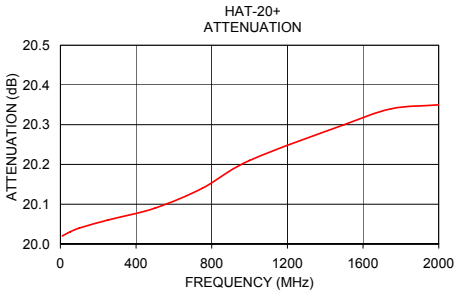
* Flatness = variation over band divided by 2.

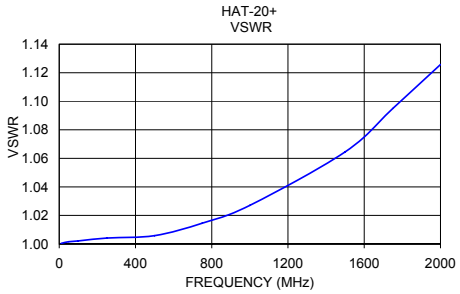
Typical Performance Data

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-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