

HAT-A-SERIES

Mini-Circuits

Up to 2W

DC to 2000 MHz

THE BIG DEAL

- Wideband coverage, DC to 2000 MHz
- Up to 2 Watt rating
- Rugged unibody construction
- Excellent VSWR

APPLICATIONS

 Signal level adjustment Impedance matching

Excellent flatness

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Generic photo used for illustration purposes only

Model No.	HAT-A-SERIES	
Case Style	Style FF747	
Connectors BNC Male-BNC Female		

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

PRODUCT OVERVIEW

Mini-Circuits' HAT-A series are fixed attenuators from DC to 2000 MHz frequency range with excellent flatness in attenuation. HAT-A series is available with nominal attenuation of 1 to 30 dB. This attenuator series support testing and measurement application. Precise performance, excellent VSWR and rugged unibody construction makes this model ideal solution for systems requiring precise attenuation across very wide frequency range.

KEY FEATURES

Feature	Advantages	
Rugged construction	Excellent durability for a long lifetime of use	
Up to 2 Watt rating	Good power handling	
Excellent VSWR	Well matched for 50 Ω systems	
Flat attenuation	Good performance over the band.	



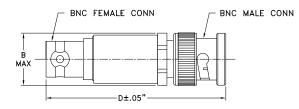
COAXIAL **Fixed Attenuator**

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.

OUTLINE DRAWING



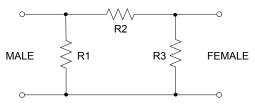
OUTLINE DIMENSIONS (Inch)

wt	D	в
grams	1.94	.62

15.75 49.28 30.0

Note: Please refer to case style drawing for details

ELECTRICAL SCHEMATIC



Parameter	Condition (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	-	2000	MHz
Attenuation ¹ nominal ³	10	-	30 ± 0.3	-	dB
	DC - 500	-	0.20	-	
Attenuation Flatness ²	DC - 1000	-	0.30	-	dB
	DC - 2000	-	0.60	-	
	DC - 500	-	1.30	-	
VSWR	DC - 1000	-	1.30	-	:1

1.40

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1.0

W

ELECTRICAL SPECIFICATIONS AT 25°C

Input Power⁴

1. Attenuation varies by 0.3 dB max. over temperature.

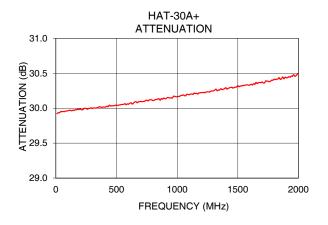
Flatness = variation over band divided by 2.
Nominal attenuation at 10 MHz

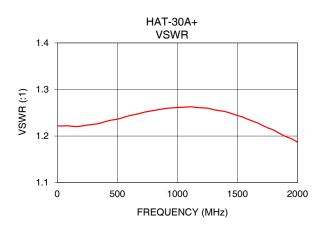
4. RF power at 25°C is 1.0W; Derate linearly to 0.8W at 85°C

DC - 2000

TYPICAL PERFORMANCE DATA

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10	29.92	1.22
50	29.95	1.22
100	29.96	1.22
250	30.00	1.22
400	30.02	1.23
500	30.04	1.24
600	30.06	1.24
800	30.11	1.25
1000	30.16	1.26
1200	30.22	1.26
1300	30.25	1.26
1500	30.32	1.24
1700	30.38	1.22
1800	30.42	1.21
2000	30.50	1.19





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.
- 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 C.
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