

DESIGNER'S KIT K2-HAT-A+

Fixed Attenuators



50Ω DC to 2 GHz



FEATURES

- One unit each of 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 dB precision attenuators
- Input power up to 2W Max.
- Excellent VSWR, 1.20:1 to 1.35:1 typ.
- Excellent flatness, 0.20 to 0.30 dB typ.
- BNC Male and Female connectors
- · Length less than 2"
- Wideband, DC to 2 GHz, 50Ω





PRODUCT OVERVIEW

K2-HAT-A+ is a designer's kit consisting of ten different attenuator models in the HAT-A+ family. There is one unit per model for a total of ten units. Mini-Circuits' HAT-A series are fixed attenuators operating from DC to 2000 MHz with excellent attenuation flatness. This attenuator series supports testing and measurement applications. Precise performance, excellent VSWR and rugged unibody construction make these models an ideal solution for systems requiring precise attenuation.

K2-HAT-A+ ELECTRICAL SPECIFICATIONS

(10 models, 1 of each, 10 total)

	_			_	(== :::================================				
Model No. ¹	Frequency (GHz) f _L -f _U	Nominal Attenuation ² (dB)	Att	enuation Flatne (dB)	9SS ³	VSWR (:1)			Input Power⁴
		DC-2 GHz	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	(W)
		Тур.	Тур.	Тур.	Тур.	Тур.	Тур.	Тур.	Max.
HAT-1A+	DC-2	1	0.10	0.15	0.20	1.10	1.15	1.35	2.0
HAT-2A+	DC-2	2	0.10	0.15	0.20	1.10	1.15	1.30	2.0
HAT-3A+	DC-2	3	0.10	0.15	0.20	1.15	1.20	1.30	2.0
HAT-4A+	DC-2	4	0.10	0.20	0.20	1.20	1.20	1.25	1.7
HAT-5A+	DC-2	5	0.15	0.15	0.20	1.10	1.15	1.20	1.4
HAT-6A+	DC-2	6	0.10	0.15	0.20	1.10	1.15	1.20	1.6
HAT-7A+	DC-2	7	0.15	0.15	0.20	1.15	1.20	1.20	1.3
HAT-8A+	DC-2	8	0.15	0.15	0.20	1.20	1.20	1.25	1.2
HAT-9A+	DC-2	9	0.10	0.15	0.20	1.20	1.20	1.25	1.1
HAT-10A+	DC-2	10	0.20	0.25	0.30	1.20	1.20	1.25	1.7

- 1. See individual model data sheets for more info.
- 2. Attenuation varies by 0.3 dB max over temperature.
- 3. Flatness = variation over band divided by 2.
- 4. RF Power at 25°C. Check individual model datasheet for derated power at 85°C.

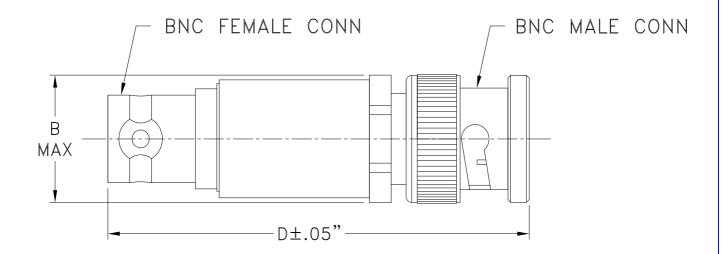


Case Style

FF

Outline Dimensions

FF747



CASE #.	A	В	C	D	E	WT GRAMS
FF747		.62 (15.75)		1.94 (49.28)		30.0

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .04$; 3Pl. $\pm .030$

Notes:

Case material: Brass.
 Case finish: Nickel plate.





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

The Design Engineers Search Engine Provides ACTUAL Data Instantity From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



ENV28T6



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Test/Inspection Condition	Reference/Spec		
-45° to 100° C Ambient Environment	Individual Model Data Sheet		
-55° to 100° C Ambient Environment	Individual Model Data Sheet		
100,000 Feet	MIL-STD-202, Method 105, Condition D		
90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103		
-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B		
20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D		
100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I		
	-45° to 100° C Ambient Environment -55° to 100° C Ambient Environment 100,000 Feet 90% RH, 65°C Units may require bake-out after humidity to restore full performance. -65° to 125°C, 5 cycles 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36) 100g, 6ms sawtooth, 3 shocks each direction 3 axes (total		

ENV28T6 Rev: A

09/26/13

M143494 File: ENV28T6.pdf

This document and its contents are the property of Mini-Circuits.