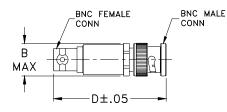
Coaxial **Fixed Attenuator**

50Ω **1W** 5dB

Maximum Ratings

Operating Temperature	-45°C to 100°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if an	y of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch)

wt	D	В
grams	1.94	.62
30.0	49.28	15.75

DC to 2000 MHz

Features

- excellent VSWR, 1.05:1 typ.
- excellent flatness, 0.15 dB typ. to 2000 MHz
- usable to 4000 MHz

Applications

- PCS
- instrumentation
- cellular





Generic photo used for illus stration purposes only CASE STYLE: FF747

Connectors Model BNC Male-BNC Female HAT-5+

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

Electrical Specifications

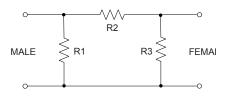
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness*			VSWR (:1)			MAX. INPUT POWER		
		DC-0.5 GHz	DC-1 GHz	DC-2 GHz	Total Band	DC-0.5 GHz	DC-1 GHz	DC-2 GHz	(W)
ff_	Nom.	Тур.	Тур.	Тур.	Тур.	Тур.	Тур.	Тур.	
DC-2000	5±0.2	0.05	0.10	0.15	0.25	1.05	1.10	1.10	1.0

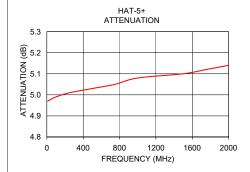
* Flatness = variation over band divided by 2.

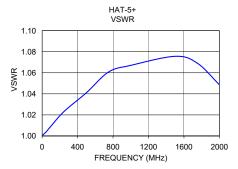
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
. ,		
10.00	4.97	1.00
50.00	4.98	1.00
100.00	4.99	1.01
250.00	5.01	1.02
500.00	5.03	1.04
750.00	5.05	1.06
1000.00	5.08	1.07
1500.00	5.10	1.08
1750.00	5.12	1.07
2000.00	5.14	1.05

Electrical Schematic







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 Nini-Circuit's applicable established test performance criteria and measurement instructions. G. The parts covered by this specification document are subject to Mini-Circuit shandard 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

REV. G M151107 EDR-5087/1-15 HAT-5+ RVN/LC/CP/AM 200520

⊒Mini-Circuits°

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

Fixed Attenuator

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	RETURN LOSS (dB)
10.00	4.97	66.03
50.00	4.98	53.40
100.00	4.99	46.67
250.00	5.01	38.72
500.00	5.03	33.92
750.00	5.05	30.61
1000.00	5.08	29.78
1500.00	5.10	28.77
1750.00	5.12	29.52
2000.00	5.14	32.50



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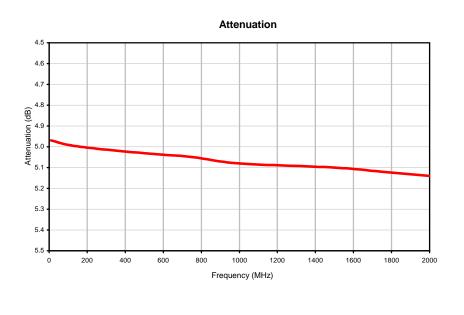
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 Page 1 of

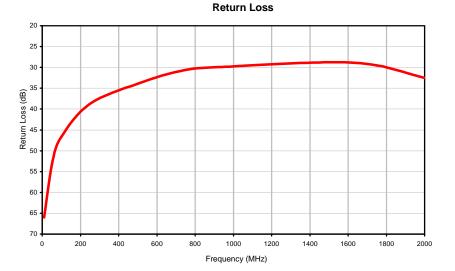
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 Iminicipatise.com

 Patent Pending
 The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see
 Iminicipatise.com

Fixed Attenuator

Typical Performance Curves







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Case Style

Outline Dimensions

BNC FEMALE CONN BNC MALE CONN BMAX D±.05"

CA	ASE #.	А	В	С	D	Е	WT GRAMS
F	F747		.62 (15.75)		1.94 (49.28)		30.0

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

Notes:

- 1. Case material:
- 2. Case finish:

Nickel plate.

Brass.





FF

FF747

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

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Sheet 1 of 1

Environmental Specifications

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.

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

ENV28T6 Rev: A 09/26/13 M143494 File: ENV28T6.pdf

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