Coaxial

NON-CATALOG RF Transformer

 50Ω

0.1 to 400 MHz

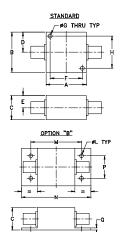
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA
Permanent damage may occur if any	of these limits are exceeded

Coaxial Connections

	Marking
PRIMARY	50
SECONDARY	75

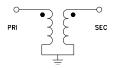
Outline Drawing



Outline Dimensions (inch)

н	G	-	E	D	C	В	Α
1.000	.125	1.000	.38	.63	.75	1.25	1.25
25.40	3.18	25.40	9.65	16.00	19.05	31.75	31.75
wt	Q	Р	N	М	L	K	J
grams	.06	.750	2.18	1.688	.125		
70.0							

Config. D



Features

- wideband, 0.1 to 400 MHz
- good return loss

Applications

• impedance matching



Generic photo used for illustration purposes only CASE STYLE: H16

BNC Connectors	Model
PRIMARY MALE / SECONDARY FEMALE	FT-1.5-1*C16
(BRACKET (OPTION "B")	

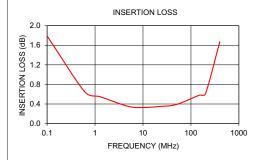
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	3 dB MHz	INSERTION LOSS* 2 dB MHz	1 dB MHz
1.5	0.1-400	0.1-400	0.5-200	1-100

^{*} Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

Typical Performance Data

	EQUENCY (MHz)	INSERTION LOSS	INPUT R. LOSS	
		(dB)	(dB)	
	0.10	1.79	7.10	
	0.61	0.65	18.61	
	1.27	0.55	20.63	
	5.03	0.35	24.38	
	10.86	0.33	25.10	
	22.53	0.35	24.87	
	49.60	0.39	22.83	
1	149.65	0.58	15.96	
2	201.16	0.61	13.38	
4	100.00	1.67	6.07	





- 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/WCLStore/terms.jsp

Typical Performance Data

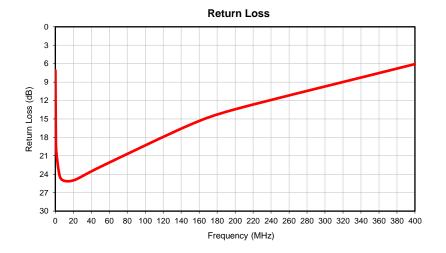
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.1	1.79	7.10
0.6	0.65	18.61
1.3	0.55	20.63
5.0	0.35	24.38
10.9	0.33	25.10
22.5	0.35	24.87
49.6	0.39	22.83
149.6	0.58	15.96
201.2	0.61	13.38
400.0	1.67	6.07



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Typical Performance Data



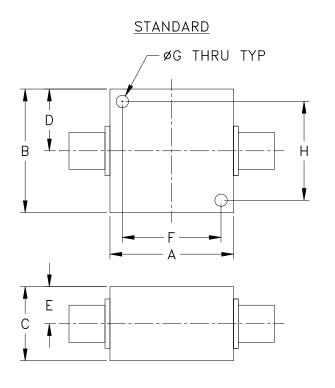


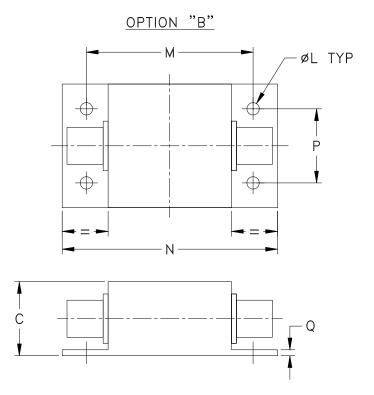


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H16

Outline Dimensions





CASE#	A	В	C	D	Е	F	G	Н	J	K	L	M	N
H16	1.25	1.25	.75	.63	.38	1.000	.125	1.000			.125	1.688	2.18
пто	(31.75)	(31.75)	(19.05)	(16.00)	(9.65)	(25.40)	(3.18)	(25.40)			(3.18)	(42.88)	(55.37)

CASE#	P	Q	WT.GRAMS
H16	.750 (19.05)	.06 (1.52)	70

Dimensions are in inches (mm). Tolerances: 2PL. \pm .03; 3PL. \pm .015

Notes:

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

For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.

- 3. Mounting bracket available on request. Add suffix B to part number.
- 4. Bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
- 5. Refer to the individual model data sheet for the type of connectors available.





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 Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



ENV28



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	-55° 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

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