Coaxial **RF Transformer**

FTB-1-1-75+ FTB-1-1-75

0.5 to 500 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	BAL
SECONDARY	UNBAL

Features

- wideband, 0.5 to 500 MHz
- balanced to single-ended
- balanced port: isolated Female BNC

Applications

• DC Block

CASE STYLE: H16-1

BNC Connectors	Model	Price	Qty.
FEMALE/FEMALE	FTB-1-1-75*A15(+)	\$46.95	(1-9)
MALE/FEMALE	FTB-1-1-75*C15(+)	\$46.95	(1-9)
BRACKET (OPTION "B	")	\$2.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

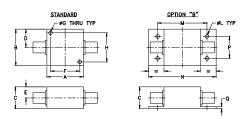
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Transformer Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	3 dB MHz	INSERTION LOSS*	1 dB MHz
		IVII IZ	IVII IZ	IVII IZ
1	0.5-500	0.5-500	5-300	10-100

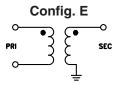
^{*} Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

Outline Drawing



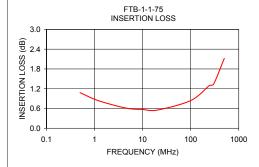
Outline Dimensions (inch)

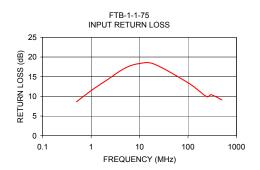
Н	G	-	E	D	C	В	Α
1.000	.125	1.000	.41	.63	.81	1.25	1.25
25.40	3.18	25.40	10.41	16.00	20.57	31.75	31.75
wt	Q	Р	N	M	L	K	J
grams	.06	.750	2.19	1.688	.125		
70.0							



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.50	1.08	8.63	
1.00	0.88	11.46	
2.00	0.74	13.95	
5.00	0.60	17.18	
10.00	0.57	18.35	
20.00	0.55	18.21	
100.00	0.84	13.46	
242.19	1.29	9.95	
300.00	1.34	10.43	
500.00	2.12	9.11	





For detailed performance specs

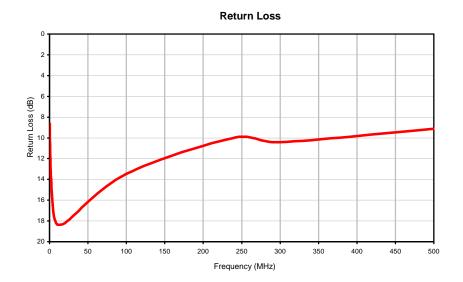
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.50	1.08	8.63
1.00	0.88	11.46
2.00	0.74	13.95
5.00	0.60	17.18
10.00	0.57	18.35
20.00	0.55	18.21
100.00	0.84	13.46
242.19	1.29	9.95
300.00	1.34	10.43
500.00	2.12	9.11

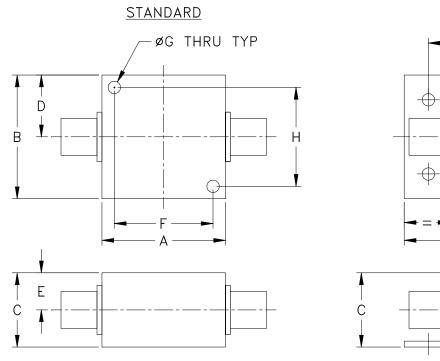
Typical Performance Curves

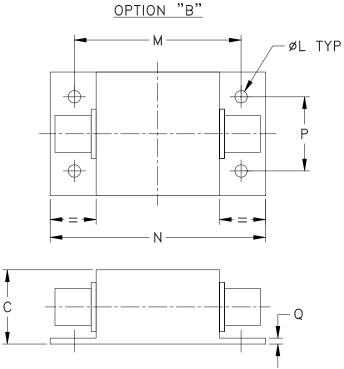




H16-1

Outline Dimensions





CASE#	A	В	C	D	Е	F	G	Н	J	K	L	M	N
H16-1	1.25 (31.75)	1.25 (31.75)	.81 (20.57)	.63 (16.00)	.41 (10.41)	1.000 (25.40)	.125 (3.18)	1.000 (25.40)			.125 (3.18)	1.688 (42.88)	2.19 (55.63)

CASE#	P	Q	WT.GRAMS
H16-1	.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 .81 to 1.00 inches when connectors are type N.
- 5. Refer to the individual model data sheet for the type of connectors available.





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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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09/26/13

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