

Band Pass Filter

BBPF-EDU0590

Coaxial

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.

At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

Please click "Back", and then click "Contact Us" for Applications support.

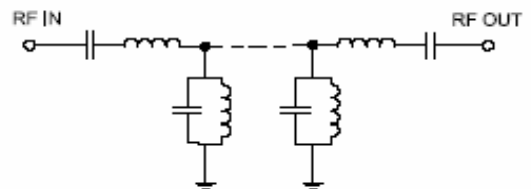


CASE STYLE : H16

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 5dB)	12		14	MHz
Center Frequency		13		MHz
Stopband Low Band (Loss > 20 dB)	10		11	MHz
Low Band (Loss > 40 dB)	DC		10.	MHz
High Band (Loss > 20 dB)	15.5		19	MHz
High Band (Loss > 40 dB)	19		100	MHz
Passband VSWR		1.4		(:1)
Stopband VSWR		18		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.4W at 25°C

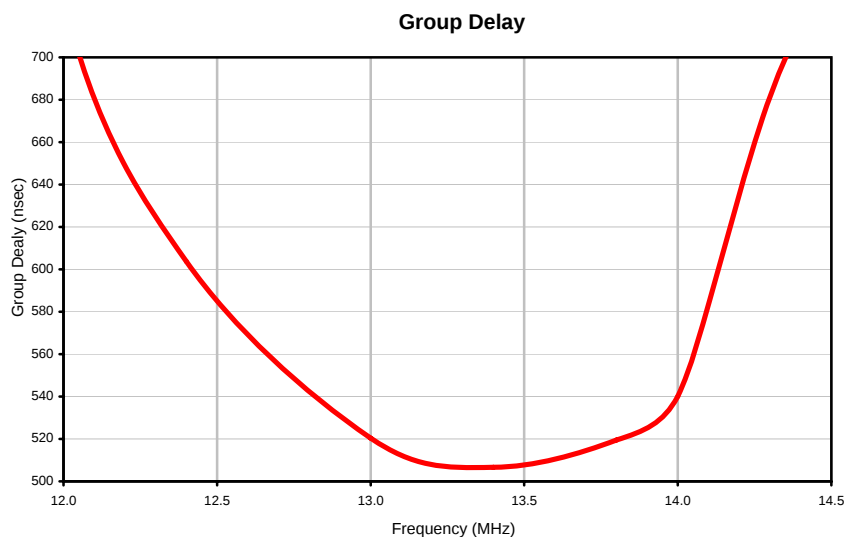
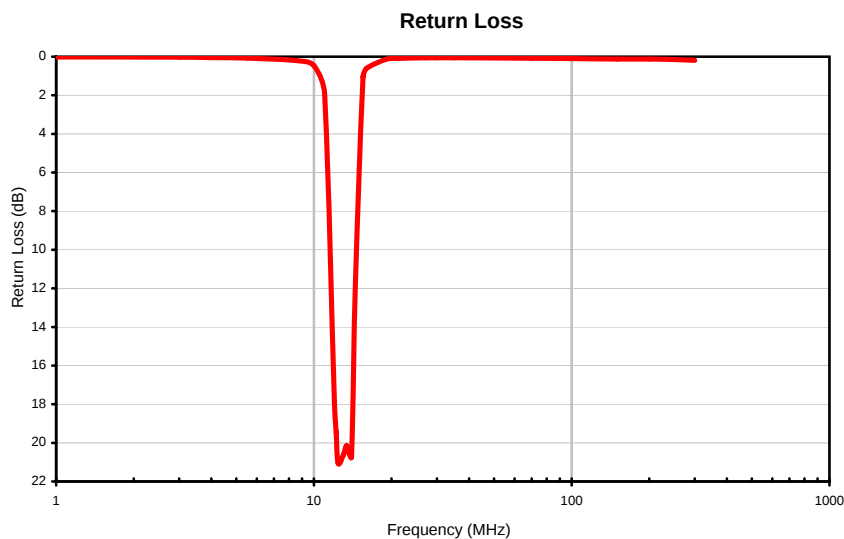
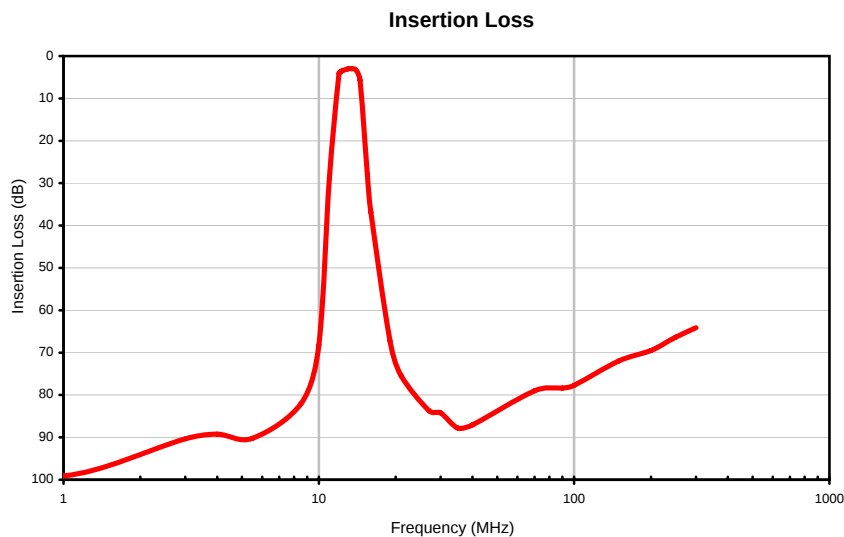
Functional Schematic



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.50	92.98	0.01	0.50	7858.97
1.00	99.10	0.01	5.00	636.98
3.00	90.34	0.03	6.00	526.86
4.00	89.22	0.05	7.50	236.55
5.50	90.22	0.08	9.50	373.45
8.50	82.10	0.20	11.00	427.05
10.00	68.26	0.46	11.50	1173.16
11.00	28.68	1.91	12.00	728.61
12.00	4.07	17.89	12.40	603.66
12.20	3.67	19.44	13.00	520.39
12.40	3.39	21.05	13.40	506.65
13.00	3.02	20.63	13.80	519.49
13.40	2.97	20.15	14.00	540.11
14.00	3.33	20.71	14.50	715.42
14.50	5.68	11.54	15.00	367.79
15.50	27.90	1.05	15.50	182.08
16.00	36.85	0.60	16.00	123.32
19.00	67.14	0.14	17.00	49.66
21.00	75.44	0.09	19.00	74.34
27.00	83.68	0.06	20.00	263.35
30.00	84.23	0.06	21.00	125.66
35.00	87.79	0.06	22.00	1646.03
40.00	87.04	0.06	23.00	731.56
70.00	79.00	0.09	25.00	5403.92
90.00	78.37	0.09	26.00	656.01
100.00	77.73	0.10	27.00	3051.67
150.00	71.93	0.12	29.00	333.07
200.00	69.48	0.12	31.00	1827.11
250.00	66.35	0.15	33.00	2898.64
300.00	64.13	0.19	100.00	536.82

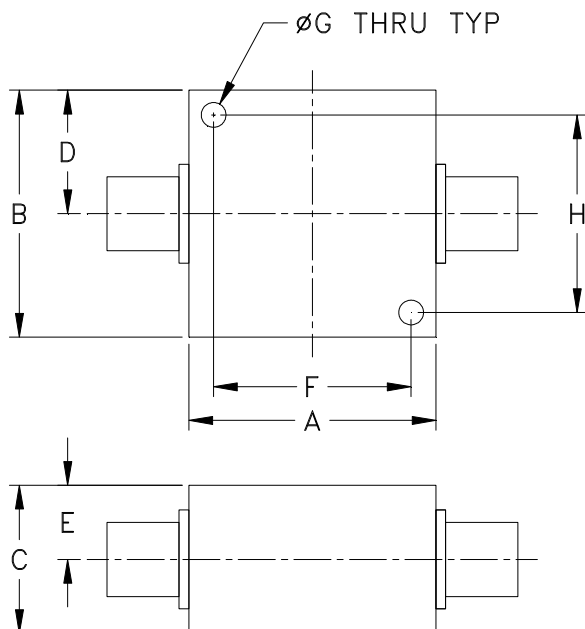
Typical Performance Curves



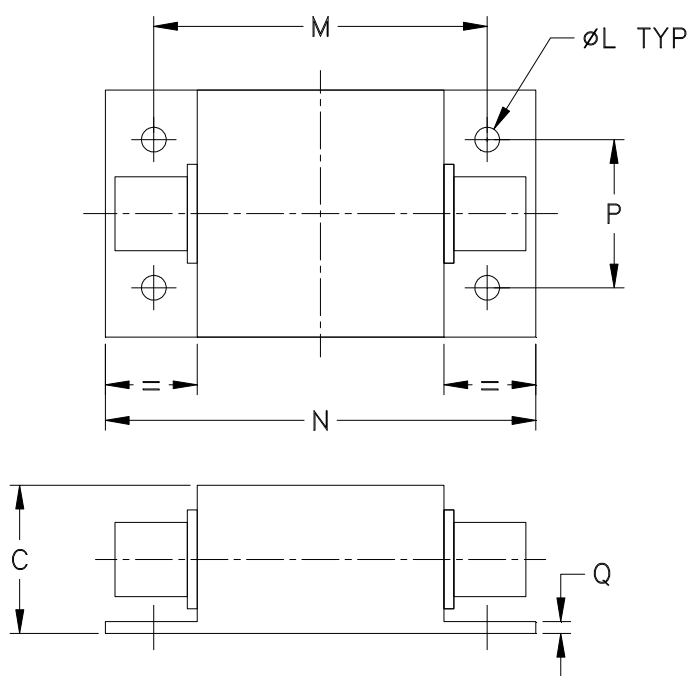
Outline Dimensions

H16

STANDARD



OPTION "B"



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
H16	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (16.00)	.38 (9.65)	1.000 (25.40)	.125 (3.18)	1.000 (25.40)	--	--	.125 (3.18)	1.688 (42.88)	2.18 (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



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