

High Pass Filter

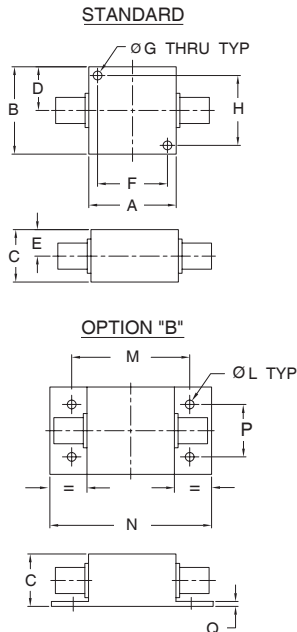
50Ω 0.07 to 1000 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1W at 25°C

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
1.25	1.25	.75	.63	.38	1.000	.125
31.75	31.75	19.05	16.00	9.65	25.40	3.18

H	L	M	N	P	Q	wt.
1.000	.125	1.688	2.18	.75	.06	grams
25.40	3.18	42.88	55.37	19.05	1.52	70

Note: Please refer to case style drawing for details

Features

- Wideband, 0.07 MHz to 1000 MHz
- Good VSWR, 1.1:1 Typ @ Passband
- High Rejection
- Rugged shielded case

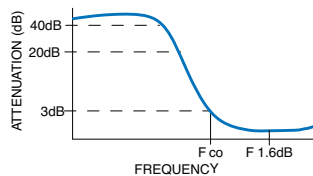
Applications

- Wire-Line Broadband Access
- Fiber Optics Network
- Receivers / Transmitters
- Lab Use
- Test Equipment

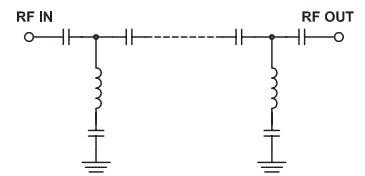
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)		f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(Loss > 40dB)	(Loss > 20dB)	(Loss 3dB)	(Loss < 1.6dB)	Stopband Typ.	Passband Typ.
DC - 0.04	DC - 0.044	0.055	0.07 - 1000	20	1.1

Typical Frequency Response

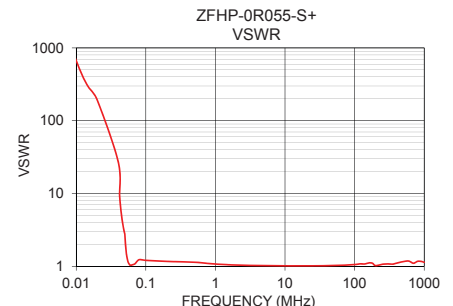
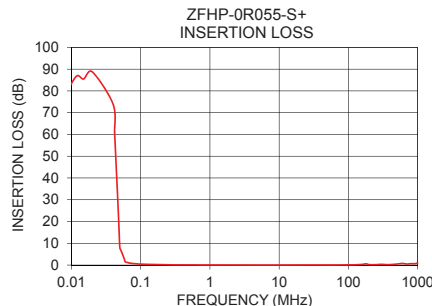


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.009	80.97	868.59
0.015	85.48	289.53
0.020	88.75	193.02
0.040	73.86	27.59
0.044	47.51	5.74
0.048	21.16	3.26
0.049	14.57	2.96
0.050	7.99	2.72
0.055	4.73	1.19
0.058	2.77	1.06
0.060	1.47	1.03
0.070	0.87	1.08
0.100	0.43	1.21
1.000	0.04	1.07
10.000	0.02	1.01
100.000	0.07	1.06
200.000	0.20	1.02
500.000	0.46	1.16
1000.000	0.96	1.13

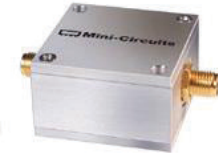


Notes

- 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/MCLStore/terms.jsp



ZFHP-0R055-S+



Generic photo used for illustration purposes only

CASE STYLE: H16

Connectors	Model
SMA-FEMALE	ZFHP-0R055-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Coaxial High Pass Filter

ZFHP-0R055-S+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.009	80.97	0.02
0.012	86.90	0.04
0.015	85.48	0.06
0.020	88.75	0.09
0.040	73.86	0.63
0.042	60.68	1.84
0.043	54.10	2.45
0.044	47.51	3.06
0.045	40.92	3.67
0.046	34.33	4.28
0.048	21.16	5.50
0.049	14.57	6.11
0.050	7.99	6.71
0.052	6.68	12.61
0.055	4.73	21.44
0.057	3.42	27.34
0.058	2.77	30.28
0.060	1.47	36.17
0.065	1.17	32.03
0.070	0.87	27.88
0.080	0.66	19.72
0.100	0.43	20.57
0.200	0.17	22.29
0.500	0.08	23.96
0.800	0.05	27.30
1.000	0.04	29.01
1.500	0.03	32.18
2.000	0.03	34.35
5.000	0.02	40.45
10.000	0.02	42.91
20.000	0.04	43.59
50.000	0.05	38.95
100.000	0.07	31.40
120.000	0.12	28.42
140.000	0.18	28.82
160.000	0.32	25.54
180.000	0.55	26.35
200.000	0.20	39.60
250.000	0.18	30.19
300.000	0.33	28.61
350.000	0.21	29.52
400.000	0.20	26.26
500.000	0.46	22.67
600.000	0.74	21.72
700.000	0.48	26.45
800.000	0.65	22.25
900.000	0.61	22.23
1000.000	0.96	24.10

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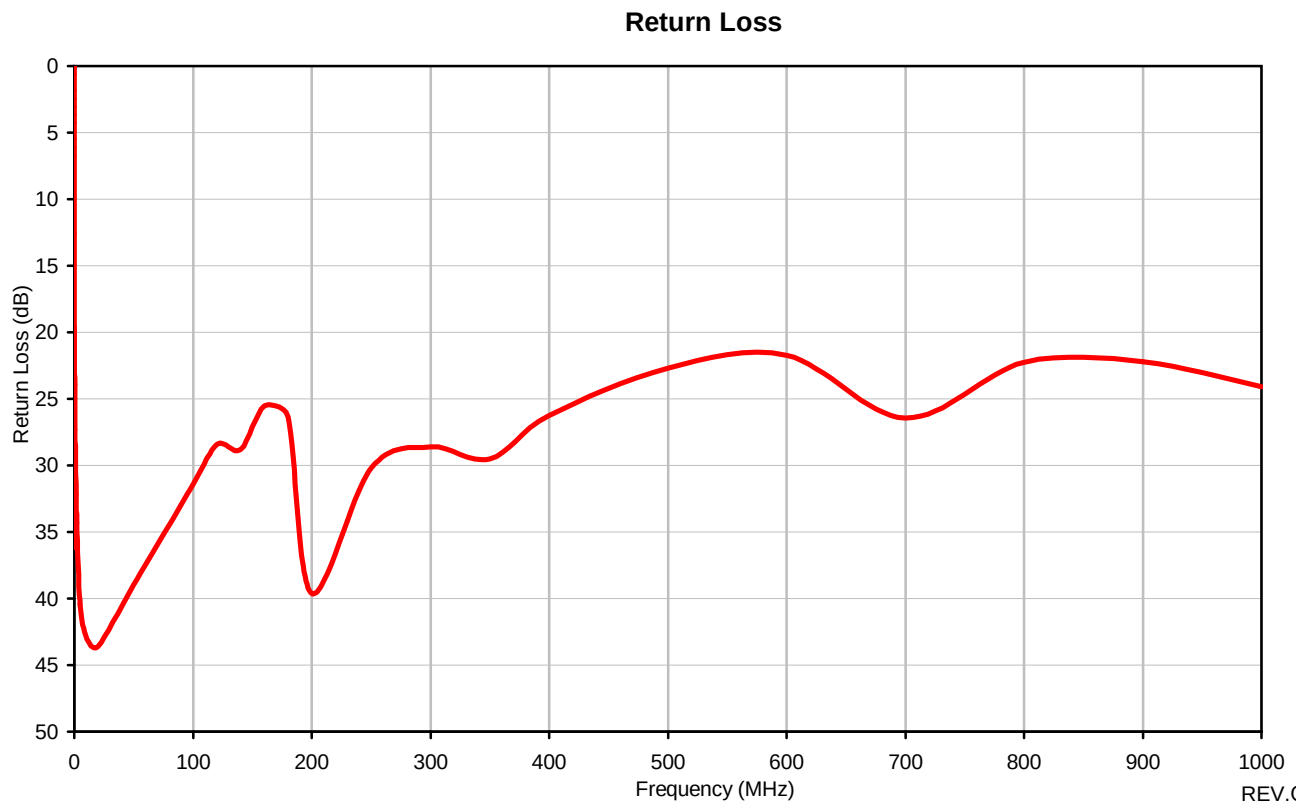
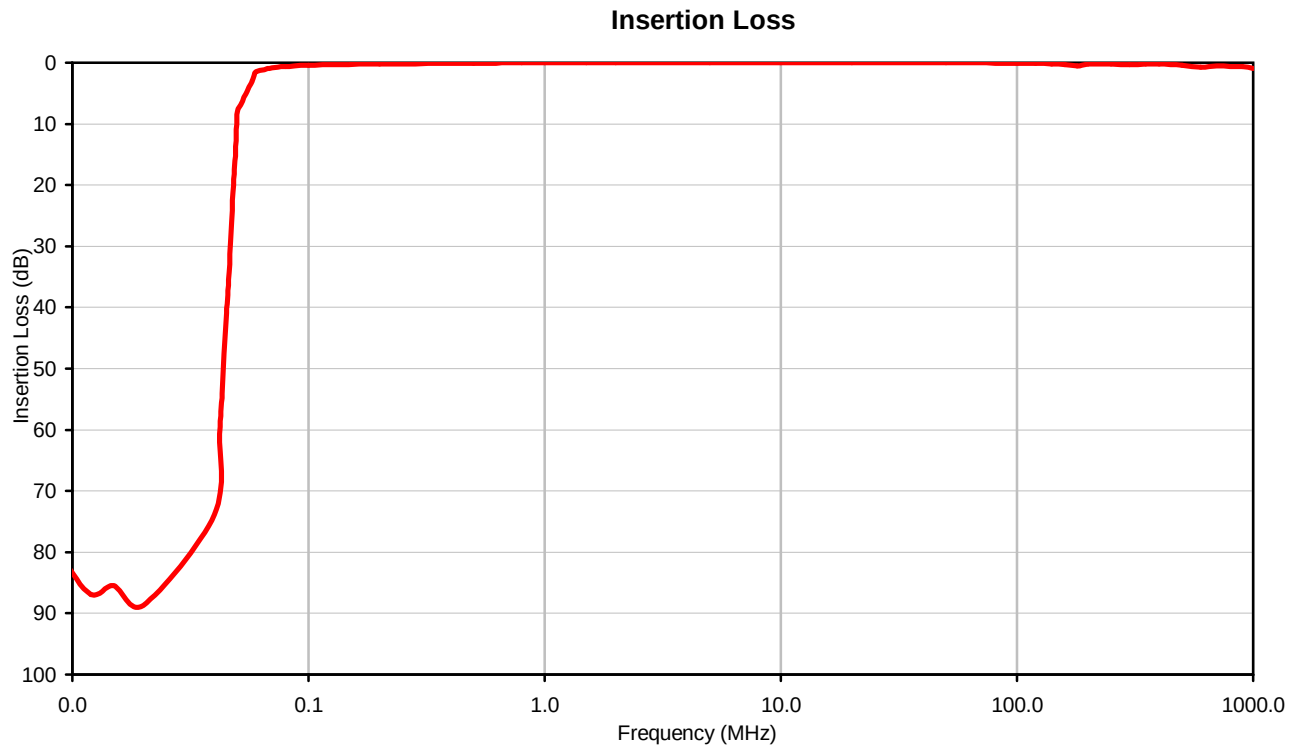
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Coaxial High Pass Filter

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Typical Performance Curves



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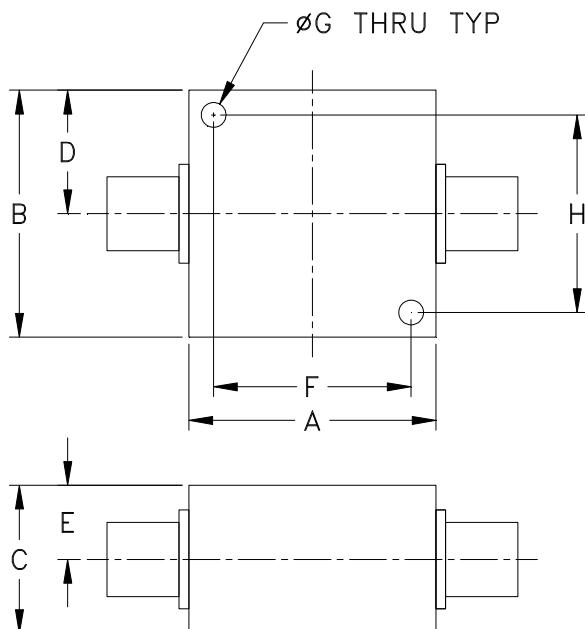
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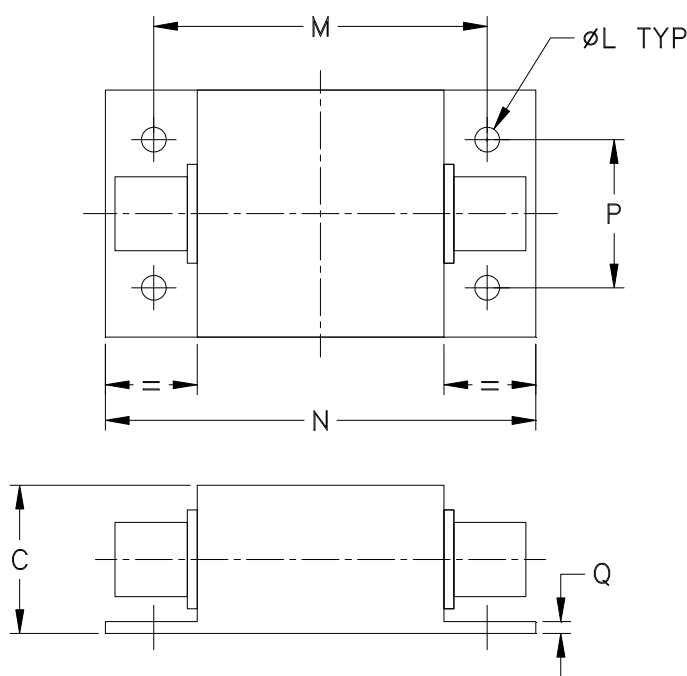
Outline Dimensions

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:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Mounting bracket available on request. Add suffix B to part number.
- Bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
- Refer to the individual model data sheet for the type of connectors available.



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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
Humidity	90 to 95% RH, 40°C, 96 hours; Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103, Condition B
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
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	50g, 11ms half-sine, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition A