

# Coaxial High Pass Filter

## NHP-175+ NHP-175

50Ω 160 to 1200 MHz

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

### Features

- rugged shielded case
- other standard and custom NHP models available with wide selection of fco

### Applications

- lab use
- transmitters/receivers
- radio communications



CASE STYLE: FF57  
Connectors Model  
N-Type NHP-175(+)

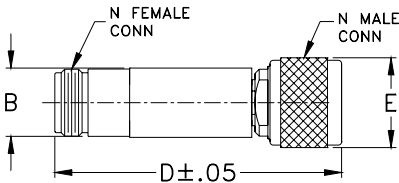
### +RoHS Compliant

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

### High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ.	Passband Typ.
DC-70	70-105	140	160-1200	17	1.5

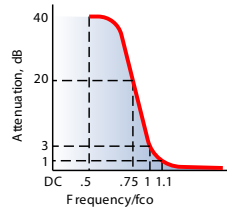
### Outline Drawing



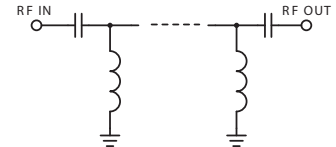
### Outline Dimensions (inch/mm)

B	D	E	wt
.67	2.90	.82	grams
17.02	73.66	20.83	90.0

### typical frequency response

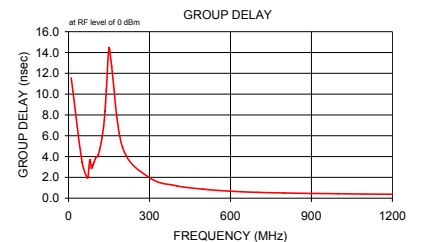
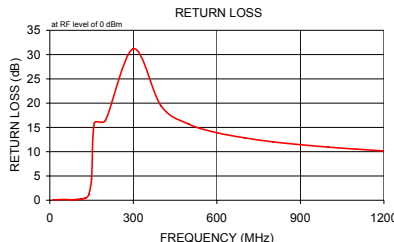
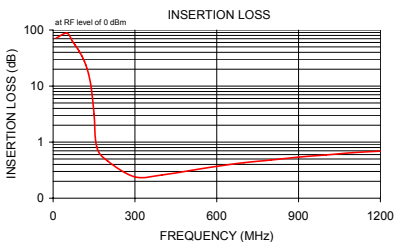


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	71.26	4.82	0.08	10.00	11.56
50.00	88.13	7.75	0.15	50.00	3.48
70.00	64.08	0.60	0.11	70.00	1.95
75.00	59.06	0.35	0.09	75.00	2.87
80.00	54.47	0.39	0.09	80.00	3.70
85.00	50.30	0.30	0.11	85.00	2.88
90.00	46.22	0.36	0.12	90.00	3.16
95.00	42.26	0.37	0.15	95.00	3.46
100.00	38.41	0.38	0.16	100.00	3.85
105.00	34.67	0.41	0.20	105.00	3.98
110.00	30.99	0.41	0.23	110.00	4.15
115.00	27.32	0.43	0.27	115.00	4.63
120.00	23.70	0.45	0.33	120.00	5.22
125.00	20.06	0.46	0.39	125.00	5.93
130.00	16.41	0.48	0.50	130.00	6.93
135.00	12.76	0.49	0.71	135.00	8.35
140.00	9.17	0.47	1.17	140.00	10.35
150.00	3.19	0.29	4.33	150.00	14.46
160.00	0.82	0.05	15.90	160.00	12.65
200.00	0.46	0.04	16.46	200.00	4.88
300.00	0.24	0.01	31.22	300.00	1.97
400.00	0.26	0.01	19.40	400.00	1.19
500.00	0.31	0.01	15.65	500.00	0.86
600.00	0.37	0.01	13.91	600.00	0.67
700.00	0.43	0.01	12.85	700.00	0.56
800.00	0.48	0.01	12.04	800.00	0.50
900.00	0.54	0.01	11.44	900.00	0.46
1000.00	0.59	0.01	10.95	1000.00	0.43
1100.00	0.65	0.01	10.53	1100.00	0.40
1200.00	0.69	0.02	10.16	1200.00	0.38



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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