Coaxial

High Pass Filter

NHP-100+

50Ω 90 to 2000 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



Generic photo used for illustration purposes only

CASE STYLE: FF57

Connectors	Model
N-Type	NHP-100+

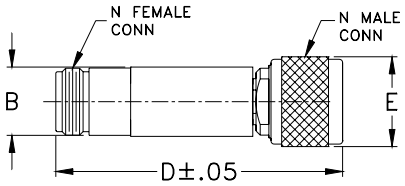
+RoHS Compliant

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-40	40-55	82	90-2000	17	1.5

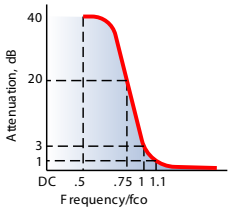
Outline Drawing



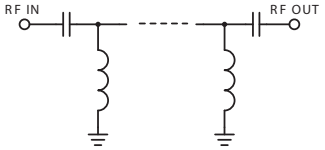
Outline Dimensions (inch / mm)

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

typical frequency response

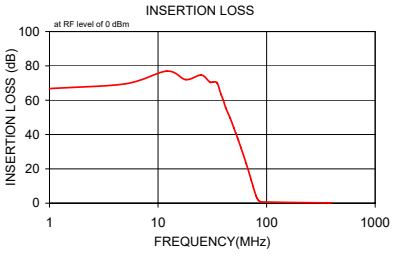


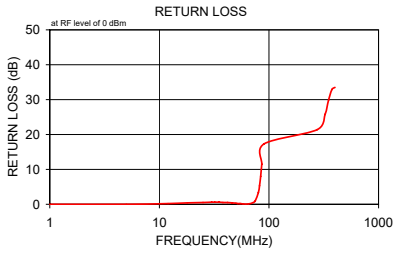
electrical schematic

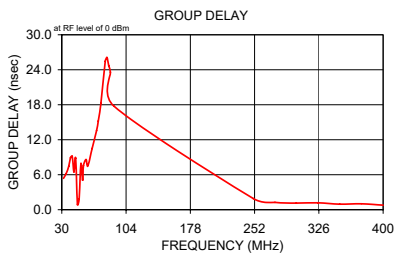


Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) x̄	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
0.30	89.11	2.62	0.00	31.00	8.89
8.00	99.03	2.59	0.00	39.00	6.70
15.00	99.15	9.35	0.00	46.00	3.14
23.00	85.95	3.83	0.01	54.00	7.36
31.00	70.59	1.33	0.02	62.00	10.03
39.00	57.79	1.32	0.04	70.00	15.90
46.00	47.39	1.59	0.07	71.00	17.05
54.00	35.98	1.77	0.14	72.00	18.27
62.00	25.00	2.07	0.29	73.00	19.57
70.00	14.11	2.38	0.78	74.00	20.91
74.00	8.90	2.38	1.65	78.00	25.23
78.00	4.58	1.93	3.80	82.00	24.35
80.00	3.05	1.49	5.61	84.00	22.20
82.00	1.97	1.01	7.85	90.00	15.92
83.00	1.59	0.78	9.08	195.00	2.32
85.00	1.07	0.43	11.60	415.00	0.70
90.00	0.60	0.07	17.02	525.00	0.55
195.00	0.20	0.02	20.29	635.00	0.47
305.00	0.26	0.03	16.03	745.00	0.44
635.00	0.23	0.02	20.93	1075.00	0.38
745.00	0.22	0.01	23.04	1180.00	0.42
855.00	0.24	0.01	25.13	1290.00	0.37
1075.00	0.21	0.01	28.66	1510.00	0.34
1180.00	0.19	0.01	29.41	1620.00	0.33
1290.00	0.23	0.01	29.30	1730.00	0.31
1400.00	0.24	0.02	28.38	1840.00	0.31
1510.00	0.24	0.02	27.07	1950.00	0.29
1730.00	0.28	0.03	23.89	2165.00	0.36
1840.00	0.27	0.03	22.20	2275.00	0.34
2060.00	0.21	0.02	18.99	2495.00	0.33







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.

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