

Coaxial High Pass Filter

50Ω 185 to 3000 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

NHP-200+
NHP-200



CASE STYLE: FF57

Connectors	Model
N-Type	NHP-200(+)

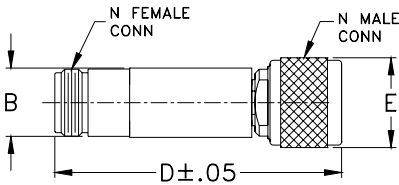
+RoHS Compliant

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-90 90-116	164	185-3000	17 1.6

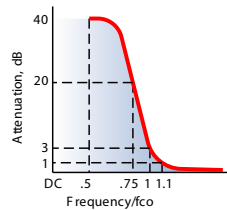
Outline Drawing



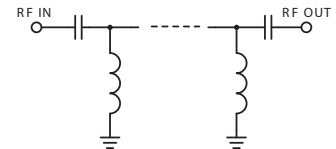
Outline Dimensions (inch)

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

typical frequency response

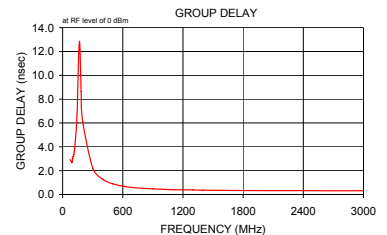
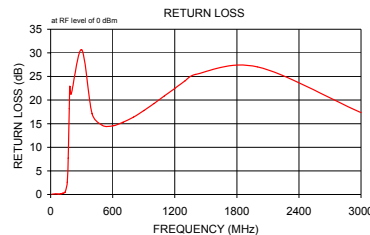


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	71.62 2.72	0.06	75.00	2.93
50.00	87.09 4.73	0.13	90.00	2.71
70.00	73.00 0.87	0.10	95.00	2.71
75.00	68.35 1.20	0.09	100.00	3.03
90.00	55.00 0.48	0.11	104.00	3.20
95.00	50.91 0.53	0.13	108.00	3.21
100.00	47.05 0.54	0.14	112.00	3.36
108.00	41.12 0.52	0.19	116.00	3.60
116.00	35.41 0.54	0.25	120.00	3.87
120.00	32.62 0.56	0.28	140.00	6.03
140.00	18.90 0.65	0.52	150.00	8.41
160.00	5.88 0.58	2.57	160.00	11.87
170.00	1.99 0.26	7.68	170.00	12.82
180.00	0.82 0.06	18.19	180.00	10.02
185.00	0.68 0.03	22.90	185.00	8.64
200.00	0.55 0.03	21.35	200.00	6.12
300.00	0.28 0.02	30.67	300.00	2.20
400.00	0.31 0.01	17.13	400.00	1.28
500.00	0.35 0.01	14.65	500.00	0.90
600.00	0.34 0.01	14.54	600.00	0.70
700.00	0.32 0.01	15.30	700.00	0.59
800.00	0.29 0.01	16.38	800.00	0.52
900.00	0.27 0.01	17.76	900.00	0.47
1000.00	0.25 0.01	19.27	1000.00	0.44
1100.00	0.25 0.01	20.89	1100.00	0.41
1200.00	0.25 0.01	22.44	1200.00	0.39
1300.00	0.26 0.01	24.09	1300.00	0.38
1400.00	0.25 0.01	25.43	1400.00	0.36
2000.00	0.31 0.01	27.03	2000.00	0.33
3000.00	0.51 0.02	17.33	3000.00	0.32



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.
- 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



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. C
M151107
NHP-200
150917

Coaxial High Pass Filter

NHP-200+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	71.62	0.06	75.0	2.930
50.0	87.09	0.13	80.0	3.810
70.0	73.00	0.10	85.0	0.740
75.0	68.35	0.09	90.0	2.710
80.0	63.70	0.10	95.0	2.710
85.0	59.46	0.10	100.0	3.030
90.0	55.00	0.11	104.0	3.200
95.0	50.91	0.13	108.0	3.210
100.0	47.05	0.14	112.0	3.360
104.0	44.06	0.17	116.0	3.600
108.0	41.12	0.19	120.0	3.870
112.0	38.25	0.22	125.0	4.210
116.0	35.41	0.25	130.0	4.680
120.0	32.62	0.28	135.0	5.250
125.0	29.16	0.30	140.0	6.030
130.0	25.74	0.35	145.0	7.060
135.0	22.33	0.42	150.0	8.410
140.0	18.90	0.52	155.0	10.110
145.0	15.48	0.68	160.0	11.870
150.0	12.10	0.97	165.0	12.960
155.0	8.83	1.51	170.0	12.820
160.0	5.88	2.57	175.0	11.590
165.0	3.53	4.50	180.0	10.020
170.0	1.99	7.68	185.0	8.640
180.0	0.82	18.19	190.0	7.560
190.0	0.61	22.52	195.0	6.750
200.0	0.55	21.35	200.0	6.120
250.0	0.35	39.59	250.0	3.280
300.0	0.28	30.67	300.0	2.200
350.0	0.28	21.24	350.0	1.640
400.0	0.31	17.13	400.0	1.280
450.0	0.34	15.39	450.0	1.050
500.0	0.35	14.65	500.0	0.900
550.0	0.35	14.43	550.0	0.790
600.0	0.34	14.54	600.0	0.700
650.0	0.34	14.83	650.0	0.630
700.0	0.32	15.30	700.0	0.590
750.0	0.30	15.75	750.0	0.550
800.0	0.29	16.38	800.0	0.520
850.0	0.28	17.03	850.0	0.490
900.0	0.27	17.76	900.0	0.470
950.0	0.26	18.50	950.0	0.450
1000.0	0.25	19.27	1000.0	0.440
1050.0	0.25	20.08	1050.0	0.420
1100.0	0.25	20.89	1100.0	0.410
1150.0	0.25	21.74	1150.0	0.410
1200.0	0.25	22.44	1200.0	0.390
1250.0	0.25	23.33	1250.0	0.380
1300.0	0.26	24.09	1300.0	0.380
1350.0	0.25	24.69	1350.0	0.370
1400.0	0.25	25.43	1400.0	0.360
2000.0	0.31	27.03	2000.0	0.330
2500.0	0.38	22.80	2500.0	0.320
3000.0	0.51	17.33	3000.0	0.320

REV. X1
NHP-200+
070628
Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

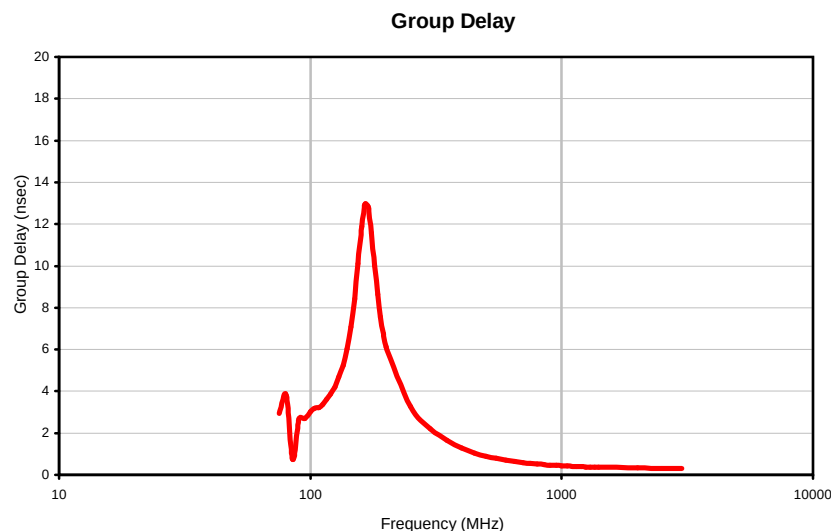
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

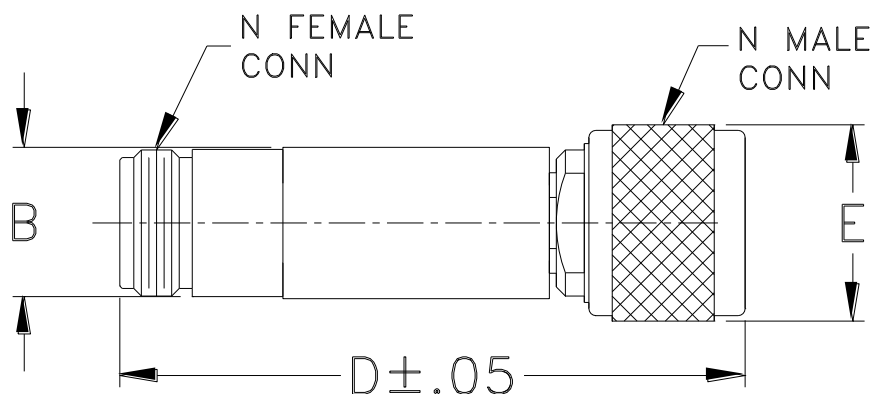


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X1
NHP-200+
070628
Page 1 of 1

Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF57	--	.70 (17.78)	--	2.90 (73.66)	.82 (20.83)	90.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015

Note:

1. Case material: Stainless steel.



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