

# Coaxial High Pass Filter

## NHP-1000+

50Ω 1000 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.

### 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	Price	Qty.
N-Type	NHP-1000+	\$39.95 ea.	(1-9)

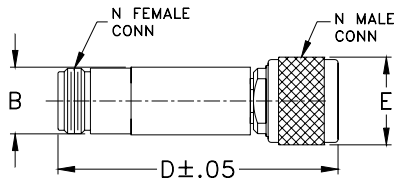
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify 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-550	550-720	900	1000-3000	17	1.9

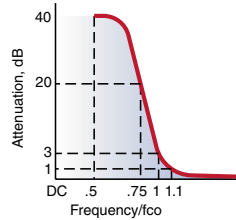
### Outline Drawing



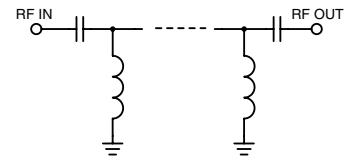
### Outline Dimensions (inch/mm)

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

### typical frequency response

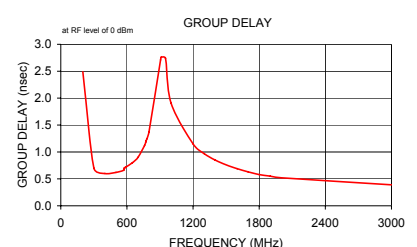
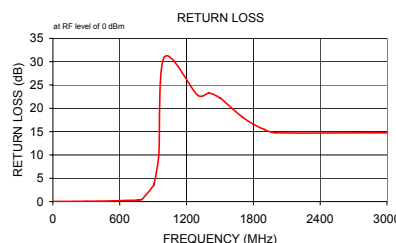
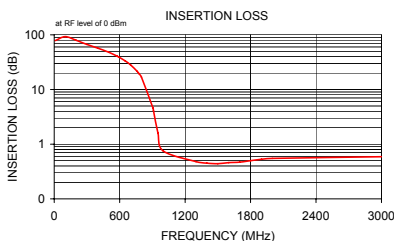


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.00	78.36	9.58	0.04	200.00	2.49
100.00	92.78	5.61	0.04	300.00	0.70
200.00	79.46	0.24	0.06	400.00	0.60
300.00	66.75	0.59	0.08	500.00	0.62
400.00	57.09	0.36	0.10	570.00	0.66
500.00	47.95	0.34	0.13	575.00	0.70
570.00	41.39	0.36	0.18	580.00	0.71
575.00	40.90	0.36	0.18	585.00	0.71
580.00	40.42	0.36	0.18	590.00	0.72
590.00	39.42	0.35	0.18	650.00	0.80
650.00	33.45	0.38	0.24	700.00	0.90
700.00	28.16	0.40	0.26	760.00	1.12
760.00	21.52	0.44	0.32	770.00	1.18
770.00	20.37	0.44	0.35	775.00	1.21
775.00	19.78	0.45	0.37	780.00	1.24
780.00	19.20	0.45	0.39	800.00	1.37
800.00	16.84	0.47	0.48	905.00	2.71
905.00	4.61	0.38	3.48	910.00	2.76
910.00	4.15	0.35	3.92	950.00	2.74
950.00	1.62	0.14	9.92	1000.00	1.91
1000.00	0.75	0.01	30.95	1200.00	1.15
1300.00	0.48	0.01	22.80	1300.00	0.97
1400.00	0.45	0.01	23.28	1400.00	0.85
1500.00	0.44	0.01	22.21	1500.00	0.76
1600.00	0.46	0.02	20.17	1600.00	0.69
1700.00	0.47	0.02	18.16	1700.00	0.63
1800.00	0.50	0.02	16.58	1800.00	0.58
1900.00	0.53	0.02	15.46	1900.00	0.55
2000.00	0.55	0.03	14.74	2000.00	0.52
3000.00	0.59	0.03	14.76	3000.00	0.39



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RF/IF MICROWAVE COMPONENTS

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