

Coaxial High Pass Filter

NHP-500

50Ω 500 to 1600 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

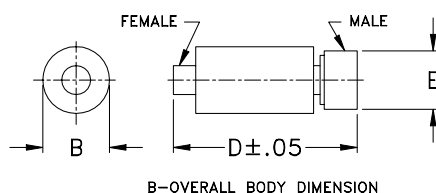
CASE STYLE: FF57

Connectors	Model	Price	Qty.
N-Type	NHP-500	\$39.95 ea.	(1-9)

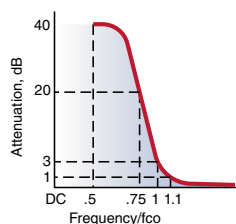
High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB)	(loss > 20 dB)	(loss < 3 dB)	(loss < 1 dB)
DC-280	280-365	454	500-1600
			17
			1.9

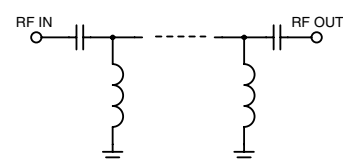
Outline Drawing



typical frequency response

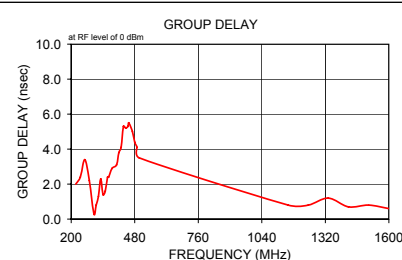
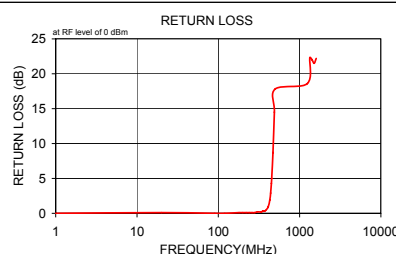


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
1.00	69.51	5.2	220.00	2.00
20.00	69.93	3.2	240.00	2.36
90.00	79.06	4.2	260.00	3.40
120.00	77.49	2.6	280.00	2.22
180.00	80.98	5.2	300.00	0.25
200.00	76.65	9.9	310.00	0.81
220.00	66.04	4.4	320.00	1.29
240.00	59.18	1.9	330.00	2.25
260.00	52.45	1.3	340.00	1.44
280.00	46.56	1.0	350.00	1.61
300.00	40.96	0.9	360.00	2.44
320.00	35.47	0.8	365.00	2.44
340.00	30.06	0.8	380.00	2.90
350.00	27.36	0.8	400.00	3.14
360.00	24.72	0.8	410.00	3.81
365.00	23.44	0.8	420.00	4.11
380.00	19.44	0.8	430.00	5.33
410.00	11.64	0.7	440.00	5.18
430.00	6.88	0.5	450.00	5.28
440.00	4.89	0.4	454.00	5.52
450.00	3.30	0.3	470.00	4.95
454.00	2.79	0.3	480.00	4.44
470.00	1.44	0.2	490.00	4.12
490.00	0.76	0.1	500.00	3.52
500.00	0.64	0.1	1156.00	0.79
1245.00	0.37	0.1	1245.00	0.78
1333.00	0.36	0.1	1333.00	1.17
1422.00	0.35	0.1	1422.00	0.68
1511.00	0.34	0.1	1511.00	0.84
1600.00	0.36	0.1	1600.00	0.58



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