

Coaxial High Pass Filter

50Ω 910 to 3000 MHz

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input	0.5 W 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-900+



Generic photo used for illustration purposes only

CASE STYLE: FF57

Connectors	Model
N-Type	NHP-900+

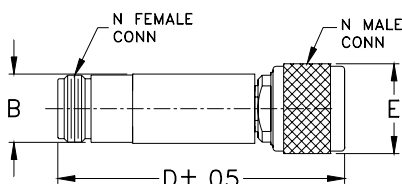
+RoHS Compliant

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

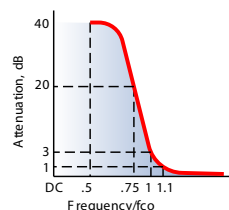
High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ. Passband Typ.
DC-520	820	910-3000	17 1.8

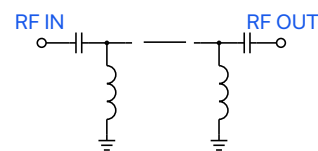
Outline Drawing



typical frequency response



electrical schematic

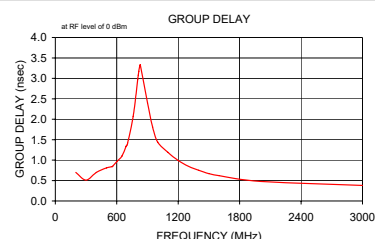
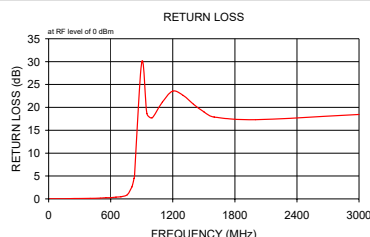
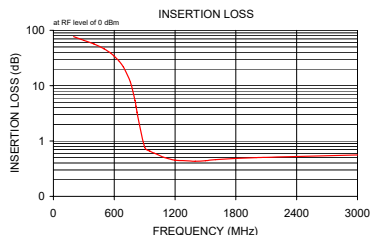


Outline Dimensions (inch/mm)

B	D	E	wt
.70	2.90	.82	grams
17.78	73.66	20.83	90.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	72.21 5.66	0.04	200.00	0.70
100.00	89.68 6.07	0.04	300.00	0.51
200.00	76.93 0.41	0.06	400.00	0.70
300.00	65.78 0.70	0.08	500.00	0.81
400.00	56.60 0.75	0.12	555.00	0.84
500.00	46.37 0.63	0.18	560.00	0.85
555.00	39.93 0.58	0.25	600.00	0.96
560.00	39.31 0.58	0.25	650.00	1.10
600.00	34.17 0.57	0.27	690.00	1.33
650.00	27.47 0.60	0.37	695.00	1.36
690.00	21.80 0.63	0.44	700.00	1.36
700.00	20.35 0.64	0.48	705.00	1.41
760.00	11.49 0.69	0.92	760.00	2.07
805.00	5.35 0.58	2.60	805.00	2.98
810.00	4.78 0.55	2.97	810.00	3.08
815.00	4.25 0.52	3.41	815.00	3.17
820.00	3.76 0.49	3.91	820.00	3.24
825.00	3.31 0.45	4.49	825.00	3.30
830.00	2.90 0.41	5.14	830.00	3.33
900.00	0.77 0.03	29.93	900.00	2.40
950.00	0.66 0.04	18.67	950.00	1.81
1000.00	0.60 0.04	17.72	1000.00	1.44
1100.00	0.50 0.02	21.19	1100.00	1.19
1200.00	0.45 0.01	23.54	1200.00	0.99
1300.00	0.44 0.01	22.60	1300.00	0.85
1400.00	0.43 0.02	20.69	1400.00	0.75
1500.00	0.44 0.02	19.04	1500.00	0.67
1600.00	0.46 0.02	17.89	1600.00	0.62
2000.00	0.50 0.02	17.31	2000.00	0.48
3000.00	0.56 0.01	18.45	3000.00	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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