

Coaxial High Pass Filter

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.

Permanent damage may occur if any of these limits are exceeded.

Features

- rugged shielded case
- other standard and custom SHP models available with wide selection of fco

Applications

- lab use
- transmitters/receivers
- radio communications

SHP-1000+



CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SHP-1000+	\$38.95 ea.	(1-9)

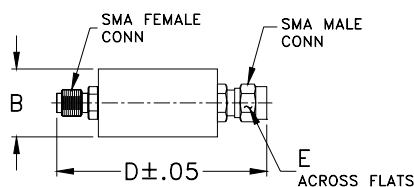
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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)
DC-550	550-720	900	1000-3000
			Stopband Typ. Passband Typ.
			17 1.9

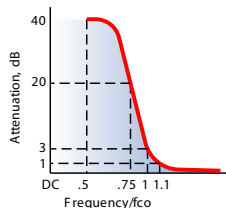
Outline Drawing



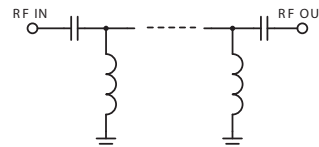
Outline Dimensions (inch/mm)

B	D	E	wt
.67	1.98	.312	grams
17.02	50.29	7.92	42.0

typical frequency response

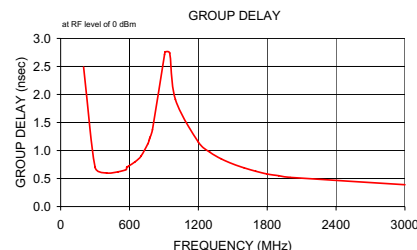
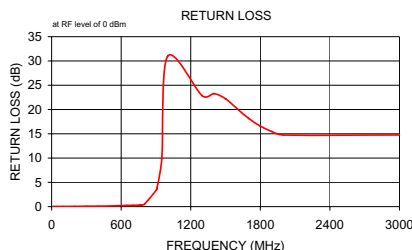
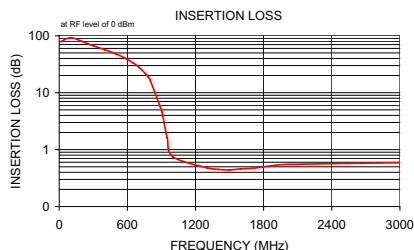


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
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



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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