

Coaxial High Pass Filter

50Ω 500 to 3200 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-500+



CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SHP-500+	\$38.95 ea.	(1-9)

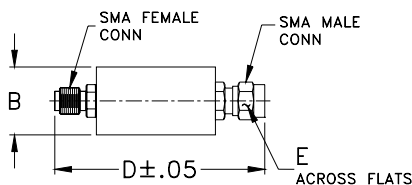
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

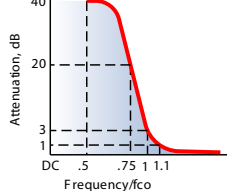
High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB) (loss > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ. Passband Typ.
DC-280 280-365	454	500-3200	17 1.9

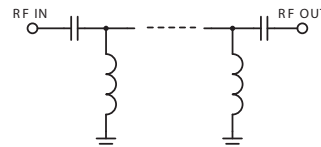
Outline Drawing



typical frequency response



electrical schematic

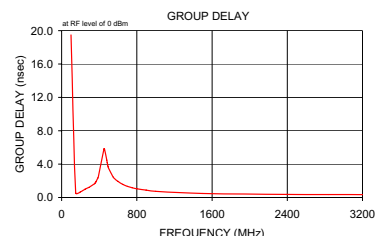
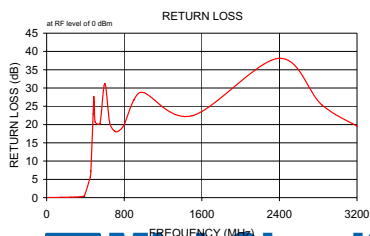
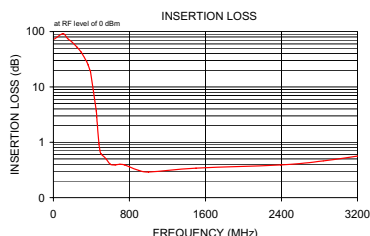


Outline Dimensions (inch/mm)

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

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	73.03	4.97	0.04	100.00	19.48
100.00	91.45	6.05	0.05	150.00	0.55
150.00	74.69	0.45	0.11	200.00	0.67
200.00	63.66	0.50	0.07	250.00	0.99
250.00	52.21	0.65	0.13	290.00	1.21
290.00	42.87	0.80	0.14	297.00	1.26
297.00	41.24	0.83	0.14	350.00	1.66
350.00	28.65	1.12	0.25	355.00	1.72
355.00	27.43	1.15	0.26	365.00	1.88
365.00	24.98	1.21	0.29	385.00	2.33
385.00	19.93	1.36	0.39	390.00	2.49
390.00	18.64	1.40	0.44	451.00	5.83
451.00	3.67	1.22	5.67	456.00	5.80
456.00	2.88	1.04	7.30	480.00	4.48
480.00	0.93	0.26	22.88	485.00	4.18
485.00	0.80	0.17	27.62	490.00	3.92
490.00	0.71	0.11	26.06	495.00	3.68
500.00	0.62	0.04	20.70	500.00	3.48
550.00	0.51	0.02	20.30	550.00	2.43
600.00	0.40	0.01	31.22	600.00	1.92
650.00	0.39	0.00	20.55	650.00	1.57
700.00	0.40	0.01	18.20	700.00	1.33
750.00	0.39	0.01	18.39	750.00	1.17
800.00	0.36	0.01	20.02	800.00	1.05
900.00	0.31	0.01	26.73	900.00	0.88
1000.00	0.29	0.01	28.75	1000.00	0.74
1500.00	0.34	0.00	22.42	1500.00	0.48
2390.00	0.39	0.01	38.09	2390.00	0.37
2840.00	0.46	0.01	25.35	2840.00	0.35
3280.00	0.59	0.01	18.45	3280.00	0.33



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IF/RF MICROWAVE COMPONENTS

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