

Coaxial High Pass Filter

50Ω 160 to 1200 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



CASE STYLE: FF99

Connectors	Model
SMA	SHP-175+

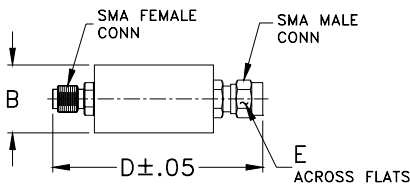
+RoHS Compliant

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 > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ. Passband Typ.
DC-70 70-105	140	160-1200	17 1.5

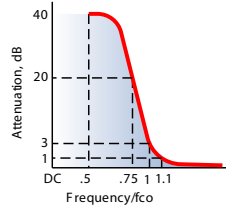
Outline Drawing



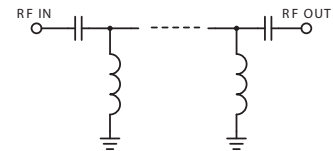
Outline Dimensions (inch mm)

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

typical frequency response

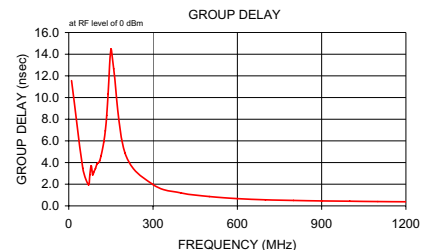
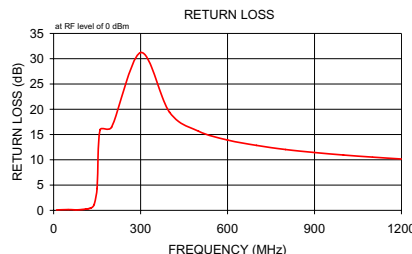
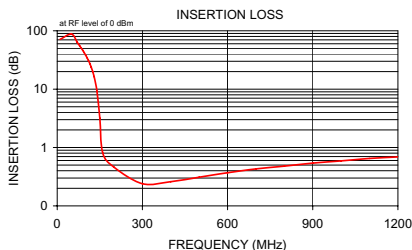


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	71.26 4.82	0.08	10.00	11.56
50.00	88.13 7.75	0.15	50.00	3.48
70.00	64.08 0.60	0.11	70.00	1.95
75.00	59.06 0.35	0.09	75.00	2.87
80.00	54.47 0.39	0.09	80.00	3.70
85.00	50.30 0.30	0.11	85.00	2.88
90.00	46.22 0.36	0.12	90.00	3.16
95.00	42.26 0.37	0.15	95.00	3.46
100.00	38.41 0.38	0.16	100.00	3.85
105.00	34.67 0.41	0.20	105.00	3.98
110.00	30.99 0.41	0.23	110.00	4.15
115.00	27.32 0.43	0.27	115.00	4.63
120.00	23.70 0.45	0.33	120.00	5.22
125.00	20.06 0.46	0.39	125.00	5.93
130.00	16.41 0.48	0.50	130.00	6.93
135.00	12.76 0.49	0.71	135.00	8.35
140.00	9.17 0.47	1.17	140.00	10.35
150.00	3.19 0.29	4.33	150.00	14.46
160.00	0.82 0.05	15.90	160.00	12.65
200.00	0.46 0.04	16.46	200.00	4.88
300.00	0.24 0.01	31.22	300.00	1.97
400.00	0.26 0.01	19.40	400.00	1.19
500.00	0.31 0.01	15.65	500.00	0.86
600.00	0.37 0.01	13.91	600.00	0.67
700.00	0.43 0.01	12.85	700.00	0.56
800.00	0.48 0.01	12.04	800.00	0.50
900.00	0.54 0.01	11.44	900.00	0.46
1000.00	0.59 0.01	10.95	1000.00	0.43
1100.00	0.65 0.01	10.53	1100.00	0.40
1200.00	0.69 0.02	10.16	1200.00	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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