

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

SHP-175+



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors	Model
SMA	SHP-175+

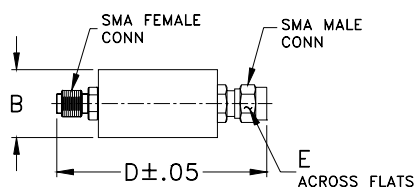
+RoHS Compliant

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

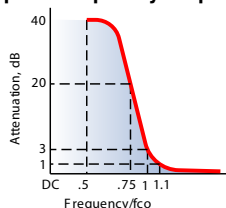
High Pass Filter Electrical Specifications

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

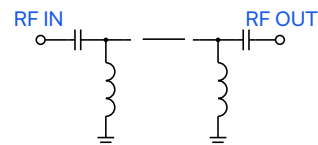
Outline Drawing



typical frequency response



electrical schematic

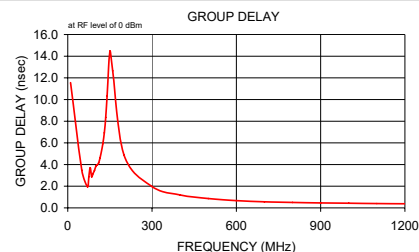
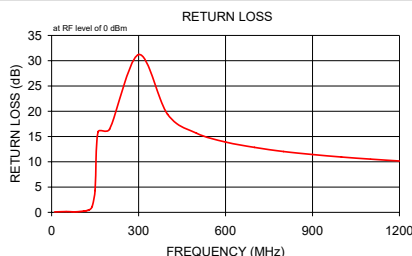
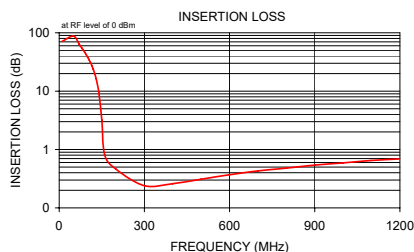


Outline Dimensions (inch/mm)

B	D	E	WT GRAMS
.70	1.98	.312	42.0
(17.78)	(50.29)	(7.92)	

Typical Performance Data

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