

Coaxial High Pass Filter

50Ω 290 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.

Features

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

Applications

- lab use
- transmitters/receivers
- radio communications

**SHP-300+
SHP-300**



CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SHP-300(+)	\$38.95 ea.	(1-9)

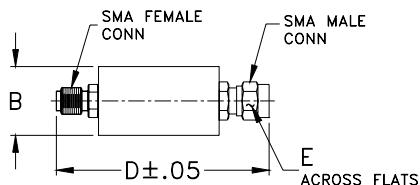
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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 < 1.5 dB)	Stopband Typ. Passband Typ.
DC-145 145-190	245	290-3000	17 1.7

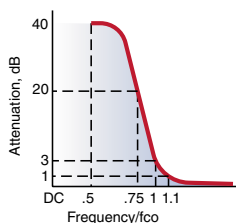
Outline Drawing



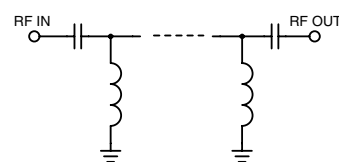
Outline Dimensions (inch mm)

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

typical frequency response

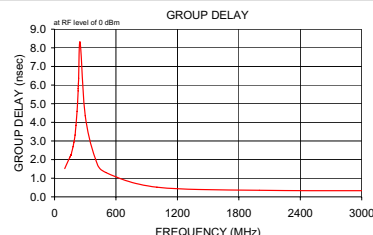
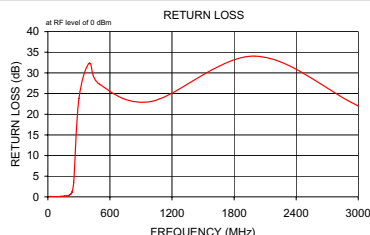
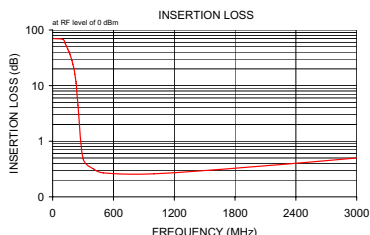


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	70.05 4.53	0.11	100.00	1.52
100.00	67.77 0.48	0.08	125.00	1.84
125.00	56.38 0.52	0.14	150.00	2.14
150.00	45.47 0.61	0.17	159.00	2.24
159.00	41.59 0.66	0.17	160.00	2.25
160.00	41.15 0.66	0.18	161.00	2.24
162.00	40.29 0.67	0.18	162.00	2.25
163.00	39.86 0.67	0.18	163.00	2.28
164.00	39.43 0.67	0.18	164.00	2.29
170.00	36.88 0.71	0.19	170.00	2.45
180.00	32.65 0.77	0.21	180.00	2.69
190.00	28.46 0.84	0.26	190.00	2.94
200.00	24.28 0.90	0.33	200.00	3.32
210.00	20.10 0.98	0.44	210.00	3.84
220.00	15.91 1.05	0.61	220.00	4.59
225.00	13.82 1.08	0.75	225.00	5.09
230.00	11.75 1.10	0.96	230.00	5.69
231.00	11.35 1.11	1.01	231.00	5.81
232.00	10.94 1.11	1.07	232.00	5.94
233.00	10.53 1.11	1.13	233.00	6.08
234.00	10.13 1.10	1.20	234.00	6.22
235.00	9.74 1.10	1.27	235.00	6.36
236.00	9.34 1.10	1.35	236.00	6.50
250.00	4.46 0.85	3.58	250.00	8.29
300.00	0.49 0.02	23.84	300.00	4.35
400.00	0.32 0.03	32.34	400.00	2.02
500.00	0.27 0.03	27.26	500.00	1.31
1000.00	0.26 0.01	23.11	1000.00	0.52
2000.00	0.35 0.01	34.07	2000.00	0.35
3000.00	0.50 0.01	22.01	3000.00	0.33



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RF/IF MICROWAVE COMPONENTS

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SHP-300
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