

Coaxial High Pass Filter

50Ω 41 to 200 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-50+
SHP-50



CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SHP-50	\$38.95 ea.	(1-9)

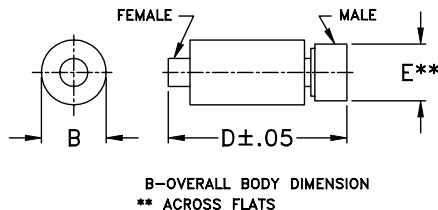
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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 dB)	Stopband Typ.	Passband Typ.
DC-20	20-26	37	41-200	17	1.5

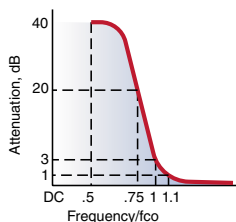
Outline Drawing



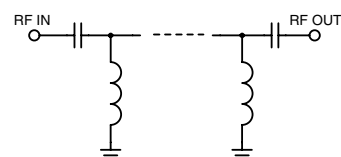
Outline Dimensions (inch)

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

typical frequency response

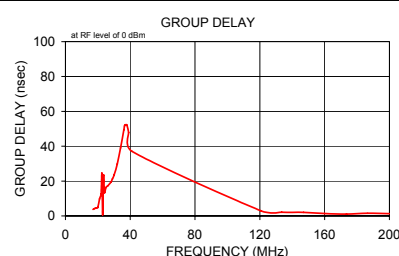
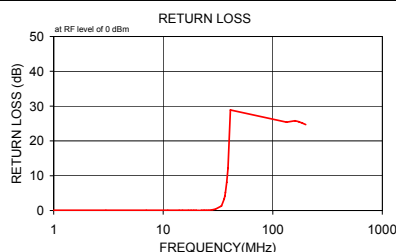


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
\bar{x}	σ			
1.00	67.35	2.1	17.00	3.77
3.00	69.22	2.0	18.00	4.22
7.00	67.66	1.8	19.00	4.55
11.00	69.57	1.3	20.00	4.91
14.00	78.81	9.5	21.00	9.75
15.00	74.91	4.7	22.00	12.75
17.00	62.53	1.4	22.50	24.54
18.00	59.52	3.2	23.00	0.69
19.00	54.95	1.7	23.50	23.43
20.00	51.14	1.0	24.00	13.44
21.00	47.48	1.0	25.00	16.30
22.50	42.82	0.7	26.00	17.22
23.50	39.50	0.6	28.00	19.35
24.00	38.04	0.5	29.00	21.30
25.00	34.89	0.6	30.00	23.37
26.00	31.98	0.5	32.00	29.87
28.00	26.15	0.5	34.00	39.03
30.00	20.49	0.5	36.00	49.41
34.00	9.52	0.4	36.50	51.69
36.00	4.92	0.2	37.00	52.35
36.50	4.01	0.2	38.00	52.06
37.00	3.25	0.2	39.00	47.84
38.00	2.07	0.1	41.00	37.11
39.00	1.37	0.1	120.50	3.01
41.00	0.81	0.1	133.50	2.11
133.50	0.19	0.1	147.00	2.07
160.00	0.16	0.1	160.00	1.41
173.50	0.16	0.1	173.50	1.04
186.50	0.16	0.1	186.50	1.54
200.00	0.16	0.1	200.00	1.27



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