

Coaxial Bandpass Filter

50Ω Elliptic Response 9.5 to 11.5 MHz

Features

- low insertion loss, 1.5 dB max.
- good selectivity, 1.76 typ. 20 dB / 3dB BW ratio
- rugged shielded case

Applications

- high rejection applications
- image rejection
- IF signal processing

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

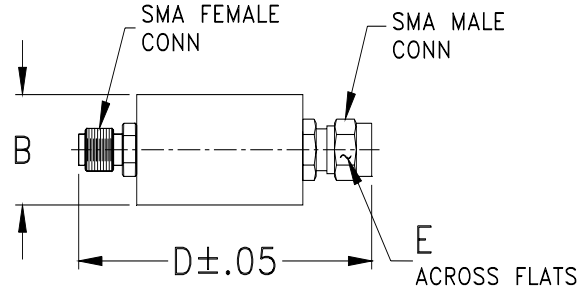
RF Power Input 0.5W max.

Permanent damage may occur if any of these limits are exceeded.



ECO SBP-10.7+

Outline Drawing



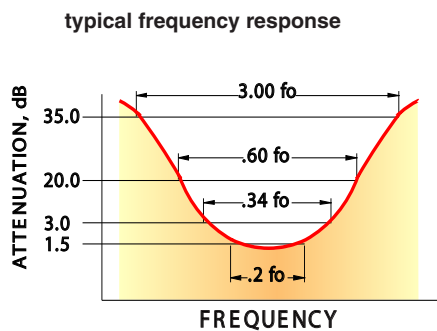
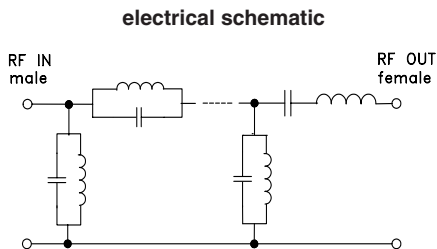
Bandpass Filter Electrical Specifications

Outline Dimensions (inch)

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

CENTER FREQ. (MHz)	PASSBAND (MHz)	3dB BANDWIDTH (MHz)	STOPBANDS		VSWR (:1)	
	I.L. 1.5 dB Max.	Typ.	(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
10.7	9.5-11.5	8.9-12.7	7.5 & 15	0.6 & 50-1000	1.7	16

Typical Performance Data



Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
0.3	75.80	2.6	0.7	32.371
0.4	76.10	4.5	3.0	12.114
0.4	74.62	4.4	5.2	24.403
0.5	69.06	2.7	7.5	215.923
0.5	69.33	1.0	7.9	159.468
0.6	67.91	1.5	8.0	91.912
1.0	57.74	0.3	8.5	212.732
5.3	25.94	0.6	8.9	237.192
7.5	30.37	2.8	9.1	235.123
7.6	26.43	4.9	9.4	213.803
8.2	7.00	1.5	9.6	197.449
8.5	3.15	0.8	9.8	180.177
8.9	2.45	0.7	10.2	153.153
9.5	0.99	0.1	16.3	145.221
9.6	0.97	0.1	16.4	140.803
10.7	0.86	0.1	17.6	138.559
11.5	0.92	0.1	18.2	141.337
12.7	3.16	0.8	7.0	145.896
13.1	3.82	1.0	5.7	165.780
13.7	10.81	2.5	1.6	163.590
14.4	22.10	4.6	0.7	145.784
15.0	33.97	4.4	0.4	127.403
20.0	26.84	0.5	0.1	36.953
40.0	41.22	0.5	0.1	85.658
50.0	46.00	0.7	0.1	118.360
100.0	62.57	1.7	0.1	4.513
325.0	66.25	3.8	0.1	2.558
550.0	51.22	1.1	0.1	2.259
775.0	43.48	1.5	0.4	2.045
1000.0	41.66	1.9	0.4	2.283

