

Coaxial Bandpass Filter



ECO BBP-70+

50Ω Elliptic Response 63 to 77 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

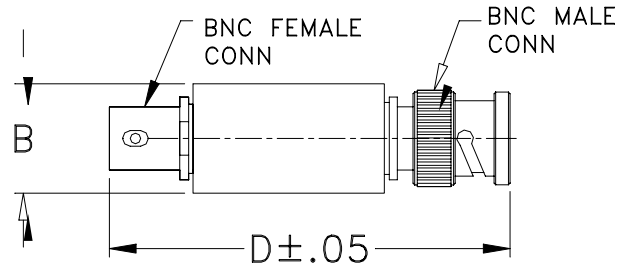
Operating Temperature -55°C to 100°C-

Storage Temperature 55°C to 100°C

RF Power Input 0.5W max.

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

Outline Drawing



Bandpass Filter Electrical Specifications

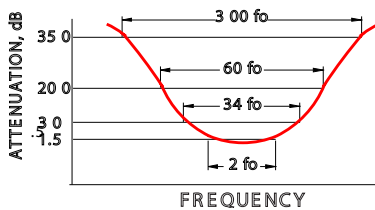
CENTER FREQ. (MHz)	PASSBAND (MHz) I.L. 1.5 dB Max.	3dB BANDWIDTH (MHz) Typ.	STOPBANDS		VSWR (:1)	
			(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
70	63-77	58-82	51 & 94	6.0 & 193-1000	1.7	16

Outline Dimensions (inch/mm)

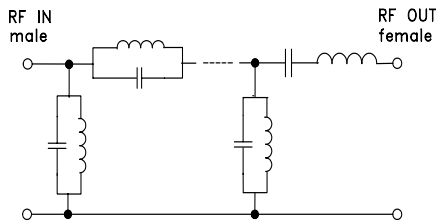
B D wt
.54 2.59 grams
13.72 65.79 40.0

Typical Performance Data

typical frequency response



electrical schematic



Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	74.05	9.99.	6.0	9.637
2.0	72.12	99.9	7.0	4.541
3.0	70.17	9.99.	21.6	3.025
4.0	65.27	99.9	36.3	5.629
5.0	62.16	8.72.	51.3	33.64
6.0	58.09	5.16	52.2	229.619
10.0	49.84	6.12.	54.0	17.384
37.3	26.90	4.15	55.9	8.664
51.0	31.67	1.00.	57.9	42.68
52.0	31.71	10.1	58.9	244.81
55.3	10.89	0.10.	63.1	536.28
57.0	5.56	10.6	64.2	632.85
58.0	3.59	2.43.	65.3	730.03
63.0	1.24	14.0	67.6	626.41
66.2	1.10	1.32.	70.0	824.70
70.0	1.11	70.7	71.2	624.42
72.7	1.18	21.2	73.7	524.96
82.0	2.13	1.01.	75.0	625.87
85.0	6.18	0.9	77.6	828.84
88.0	12.70	8.24.	80.4	331.88
91.0	22.06	32.9	81.8	232.56
94.0	32.17	0.9	83.2	932.24
95.0	33.31	0.8	86.1	226.2
160.3	35.43	0.3	90.7	282.764
193.0	41.33	0.3	93.9	14.126
200.0	42.38	0.3	95.5	17.176
400.0	60.24	0.7	128.1	2.113
600.0	53.81	0.8	160.3	1.095
800.0	46.59	0.7	190.5	0.413
1000.0	42.50	0.7	193.9	0.375

