

Tubular Cable Band Pass Filters



RLC Electronics' Tubular Cable Band Pass Filters offer the performance of our BPF series* with the space saving flexibility of custom formed semi rigid cables. These designs are available on our entire BPF line

and can be manufactured with either .141 or .086 semi rigid cable which can be formed into almost any configuration**. SMA male connectors are standard, other connectors are also available.

Specifications

TCBF-1-2-3-4-5

Center Frequency Range(MHz)	3dB Bandwidth (% of Fc)	Number of Sections	Stopband Attenuation
15 to 1000 (BPF-1250)	2 to 60	2 to 12	See Curves On page 31 of RLC Catalog
30 to 2000 (BPF 750)			
50 to 4000 (BPF 500)			
75 to 400 (BPF 250)	3 to 40		
401 to 8000 (BPF 250)	3 to 60		

Power, Average, Max:

10 Watts BPF-250 25 Watts BPF-500
50 Watts BPF-750 200 Watts BPF-1250

Environmental: MIL-E-5400, Class 1A

To designate the tubular cable band pass filter desired use:

- | | |
|---|---|
| 1) Filter diameter
"250" is 1/4 inch "500" is 1/2 inch
"750" is 3/4 inch "1250" is 1 1/4 inch | 4) Number of Sections |
| 2) Center frequency in MHz | 5) Cable Diameter: AC for .141; BC for .086 |
| 3) 3 dB bandwidth in MHz | |

Example: TCBF-500-950-95-5-AC is a 1/2" diameter, 950 MHz center frequency, 95 MHz 3 dB bandwidth, 5 section filter with .141 diameter cable.

Cable Loss Constants	
.141	.086
Fc<2GHz .14 dB/ft	Fc<2GHz .24dB/ft
2GHz<Fc .30 dB/ft	2GHz<Fc .61 dB/ft

* Insertion loss = Catalog BPF + Cable Loss Constant

** Minimum bend radius .141 = 0.45", .086 = 0.23"

Specifications subject to change without notification.

Tolerances unless otherwise specified are: .xx ± .02

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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