

Cavity Filters Low Band, Aviation, and VHF Bandpass Cavities FP20107 Series

FP20107-4

Cavity filter, bandpass, high Q, one 7" cavity, 132-174 MHz

Also referred as: FP20107*4

- · Aluminum cylinder with brass and copper coaxial inner conductor
- · Silver plating and chromate conversion coating limit corrosion and enhance performance
- · Optional Shadow Bronze finish available
- · Temperature compensated for extremely low frequency drift

Sinclair's FP20107-4 series cavity filters are the building blocks of the finest antenna systems. These filters pass a frequency while attenuating frequencies on either side of the desired frequency. The insertion loss of the passband may be preset at the factory or adjusted in the field. The amount of attenuation (selectivity) can be increased by increasing the insertion loss or using multiple cavities in series. Filter design must recognize the extremely close tolerances required to assure flawless performance over temperature when small variations in electrical wavelength mean significant changes in frequency response curves.

The FP series band pass filters are designed to:

- Protect one receiver from front-end overload by crriers of co-located transmitters.
- Suppress IM generation in one transmitter by protecting it from incoming carriers of co-located transmitters (usually in conjunction with a ferrite isolator).
- Suppress sideband noise of a single transmitter on co-located receiver frequencies.
- Generally, "Protect One from Many."



Filter may not appear exactly as picture

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Product Specification Sheet EPR 018166 Customer Tech Manual 005064 FP20107-4

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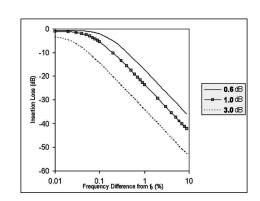
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Frequency Range	MHz	132 to 174	
Insertion loss (min)	dB	0.5	
Impedance	Ω	50	
Average Power Input (max)	W	90 to 400	*
Input Connectors		N-Female	
Output Connectors		N-Female	
Insertion Loss (max) Tx to Ant	dB	3	

Notes

- *1:400W @ 0.5dB; 210W @ 1.0 dB; 90W @ 3dB
- *2:26" excluding tuning rod

Vidth	in (mm)	7 (178)	
Depth	in (mm)	7 (178)	
₋ength/ Height	in (mm)	36 (914)	*2
inish		chemical conversion	
Veight	lbs (kg)	11 (4.99)	
Actual shipping weight	lbs (kg)	15 (6.81)	
Shipping dimensions	in (mm)	9x9x45 (229x229x1143)	



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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
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