

FP20307-3 Cavity filter, bandpass, high Q, three 7" cavities, 148-174 MHz

- Aluminum cylinder with brass and copper coaxial inner conductor
- Silver plating and chromate conversion coating limit corrosion and enhance performance
- Three temperature compensated bandpass cavities with minimum frequency drift

Sinclair's FP series cavity filters are the building blocks of the finest antenna systems. These filters pass a band of frequencies while attenuating frequencies on either side of the desired frequency band. 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. Consequently, Sinclair engineers have carefully adapted the FP series filters for a variety of applications in the low band, VHF, UHF and 806-960 frequency ranges.

The FP series bandpass filters are designed to protect one receiver further from front -end overload by carriers of co-located transmitters. They also suppress IM generation in one transmitter by protecting it further from incoming carriers of co-located transmitters (usually in conjunction with a ferrite isolator). Generally, the bandpass cavity "Protects One from Many."



www.sinctech.com

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Product Specification Sheet		FP20307-3	Issue: 11	Dated: 25-04-16

Electrical Specifications

Frequency Range	MHz	148 to 174
Input VSWR (max)		1.5:1
Insertion loss (adjustable)	dB	1.5 to 3
Impedance	Ω	50
Average Power Input (max)	W	400W @ 1.5db, 210W @ 3.0db
Input Connectors		N-Female
Output Connectors		N-Female

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	15 (381)
Length/ Height	in (mm)	32 (813)
Finish		chemical conversion
Weight	lbs (kg)	42 (19.07)
Actual shipping weight	lbs (kg)	59 (26.79)
Shipping dimensions	in (mm)	21x17x34 (533x432x864)
Mounting configurations		19 inch rack

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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