

**FR20107-3**      Cavity filter, reject, high Q, one 7" cavity, 138-174 MHz

Also referred as: FR20107\*3

- 7 inch diameter aluminum cylinder with brass and copper coaxial inner conductor
- Silver plating and chromate conversion coating limit corrosion and enhance performance
- Temperature compensated for extremely low frequency drift

The notch (reject) filters provide exactly the opposite response to a bandpass filter — they “notch out” or reject an unwanted frequency, while passing all others. An essentially symmetrical response is obtained where a passband is required, both above and below the notch reject frequency. In order to be easily field-tuned, a rotatable loop permits variable notch depth and a fine tuning nut allows for fine frequency adjustment.

The FR series notch filters are designed to:

- Suppress sideband noise from multicoupled transmitters on one co-located receiver frequency.
- Protect multicoupled receivers further from front-end overload by the carrier of one co-located transmitter.
- Generally, “Protect Many from One.”



Filter may not appear exactly as picture.

www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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#### Electrical Specifications

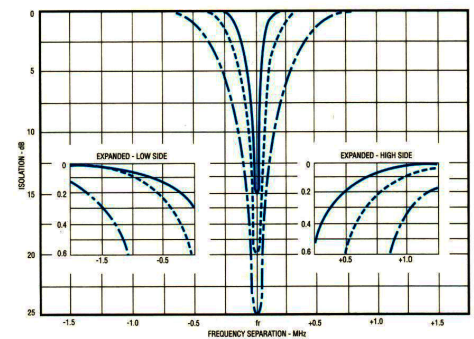
Frequency Range	MHz	138 to 174
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.5:1
Impedance	$\Omega$	50
Average Input Power (max)	W	400
Notch attenuation (max)	dB	25

#### Mechanical Specifications

Width	in (mm)	7 (178)
Depth	in (mm)	7 (178)
Length/ Height	in (mm)	32.5 (826)
Finish		chromate conversion
Weight	lbs (kg)	8.5 (3.86)
Actual shipping weight	lbs (kg)	10 (4.54)
Shipping dimensions	in (mm)	36x9x9 (914x229x229)

#### Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ( $^{\circ}\text{C}$ )	-40 to +140 (-40 to +60)
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