

FR30107-3 Cavity filter, reject, high Q, one 7" cavity, 406-512 MHz

Also referred as: FR30107\*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.”



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Product Specification Sheet		FR30107-3	Issue: 111	Dated: 08-10-13

### Electrical Specifications

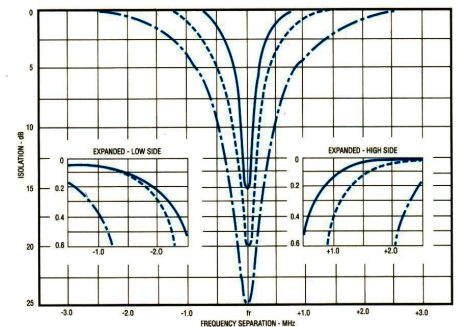
Frequency Range	MHz	406 to 512
Input VSWR (max)		1.5:1
Impedance	Ω	50
Number of Cavities		1
Average Power Input (max)	W	350
Input Connectors		N-Female
Output Connectors		N-Female

### Mechanical Specifications

Depth	in (mm)	7 (178)
Length/ Height	in (mm)	17.5 (445)
Width	in (mm)	7 (178)
Weight	lbs (kg)	6 (2.72)
Actual Shipping weight	lbs (kg)	10 (4.54)
Shipping dimensions	in (mm)	21x9x9 (533x229x229)

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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