

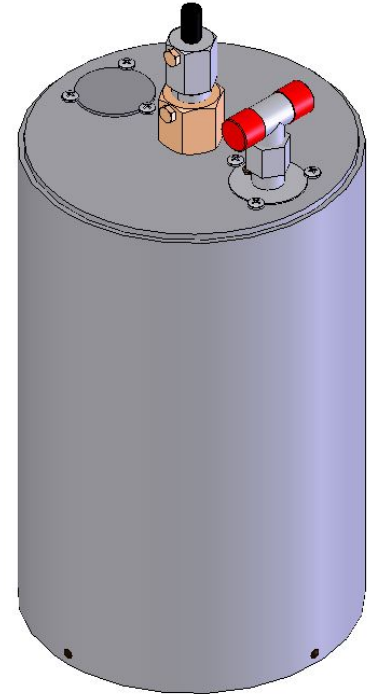
FQ30107-3

Cavity filter, Q circuit, high Q, one 7" cavity, 406-512 MHz

Also referred as: FQ30107*3

- Suppress sideband noise of a single co-located Tx on a closely-spaced Rx
- Protect a closely-spaced Rx further from front-end overload by the carrier of co-located Tx
- Suppress IM generation in one Tx by protecting it from incoming carrier of a closely spaced Tx
- Generally, "Protect ONE from ONE" at close frequency spacings

These filters employ the Sinclair-developed Q-circuit design. The operation of the Q-circuit is such that it inverts the characteristics of a standard notch filter, and uses the narrow resonance notch to create the circuit passband while allowing the lower Q elements, such as the loop and its reactance adjustment, to produce the relatively broad isolation notch. In this manner, optimum use of the cavity components is realized, resulting in close pass/reject spacing, low insertion loss, and broad isolation notch. The filters can be tuned for either high or low pass condition, with minimum frequency separations. The Q-circuit filter combines the features of a bandpass and reject filter. This can be particularly useful when a close frequency might interfere with the desired frequency. For this reason, both the pass and reject frequencies and required insertion loss must be specified when ordering Q-circuit filters.



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

Electrical Specifications

Frequency Range	MHz	406 to 512
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.5:1
Insertion loss (min)	dB	0.3
Insertion Loss (max) Tx to Ant	dB	0.6
Impedance	Ω	50
Average Power Input (max)	W	350

Notes

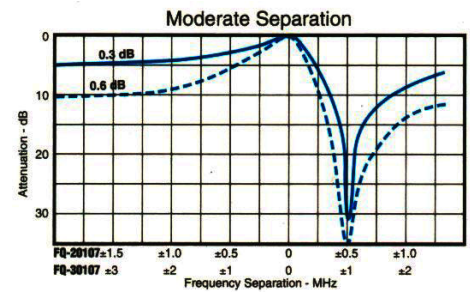
*1 : Panel Not included.

Mechanical Specifications

Width	in (mm)	7 (178)
Depth	in (mm)	7 (178)
Length/ Height	in (mm)	16.6 (422)
Finish		chromate conversion
Weight	lbs (kg)	6 (2.72)
Mounting configurations		19 inch rack *1
Actual shipping weight	lbs (kg)	10 (4.54)
Shipping dimensions	in (mm)	21x9x9 (533x229x229)

Environmental Specifications

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



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