

**“FQ” Series
Q-Circuit Cavities**

Electrical Specifications Notes ----->	FQ-20107	FQ-30107	FQ-40137
	NOTE (1)	----	----
FREQUENCY RANGE MHz	132-174	406-512	806-960
INSERTION LOSS -db	0.3 TO 1.0 (DETERMINED BY SEPERATION)		
FREQUENCY SEPARATION MHz	(CLOSE 0.25) (MOD. 0.5) (WIDE 2.0 TO 3.0)		
ATTENUATION -db	26-40 (DETERMINED BY SEPERATION)		
INPUT POWER (MAX) WATTS	350		
VSWR	1.5:1 (REF. TO 50 OHMS)		
TEMPERATURE RANGE	-40°C TO +60° C		
TERMINATION	TYPE "N" FEMALE		

Note (1): Furnished in 2 Bands (132-150 MHz) (148-174 MHz)

The Q-circuit filter combines the features of a Bandpass and reject filter. The filters can be tuned to either high or low pass condition, with minimum frequency separations. The typical curves shown are low pass and reject high configurations.

'FQ' Q-Circuit Filters

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

