

### Features:

- Tunes from 380 to 512 MHz in 1 KHz steps
- Eliminates Adjacent Channel Interference
- Highly Selective Crystal Pre-Selector
- Field Programmable Using a PC GUI
- Controllable thru USB, LAN, or LCD
- Failsafe bypass mode for loss of power
- Low Noise Figure
- Automatic Gain Control



**Applications:** Defense, Land Mobile/Public Safety, SCADA as well as commercial two-way radio systems. Solving Narrow Band FCC Mandate interference issues, P25, DMR, NXDN and Tetra standards

### Description:

The Ultra-Q active band pass filter can eliminate out of band interfering signals with ultra-fine band adjustments and bandwidths as narrow as 6 kHz. Complete local control via a GUI is standard.

### Electrical Specifications:

Tuning Frequency Range	380 to 512 MHz			
Tuning Step Size	1kHz			
Input RF power	-5 dBm (Maximum usable)			
Max input power no damage	+20 dBm			
Noise Figure @ Pin < -20 dBm	7 dB typical			
Noise Figure @ Pin > -20 to -5 dBm	17 dB			
RF Gain	+0 to 10 dB			
I/O VSWR	1.5 to 1 nominal			
I/O Connectors	Type N Female			
Power Requirement	120VAC			
Control Interface Options	USB, RJ-45 LAN, LCD on front panel			
Size	19" Rack Mount, (19" x 11" x 3.5")			
<b>Filter Description</b>				
Filter Channel Spacing Options	12.5	25.0	50.0	kHz
Min 3 dB Bandwidth	+/- 3.75	+/- 7.5	+/- 15.0	kHz
Max 45 dB Stop Band	+/- 8.75	+/- 17.5		kHz
Max 60 dB Stop Band			+/- 45	kHz
Max 65 dB Stop Band	+/- 12.5	+/- 25		kHz
Group Delay (1 dB BW)	20	10.0	5	uSec