



BBUQ

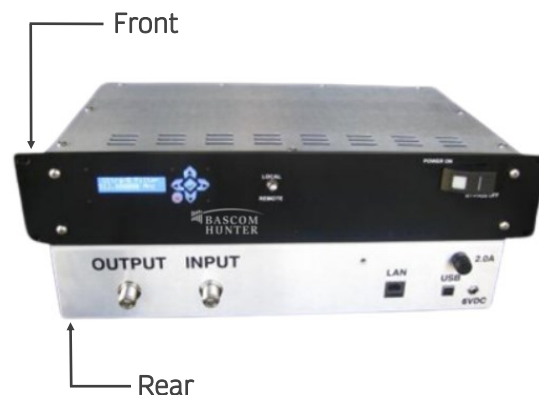
Ultra Fine Active Bandpass Filter

ELECTRICAL	
Tuning Step Size	2.5 kHz (Ultra-Fine tunes in approx. 10Hz Steps)
Input RF Power	-5 dBm (Maximum usable: Unit will enter bypass mode if power exceeds -5 dBm at input)
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	1.5:1 nominal
I/O Connectors	Type N Female
Power Requirement	120 VAC (48V DC available on request)

FILTER DESCRIPTION			
	Narrowband	Wideband	
Selection Y	Option 0	Option 1	
Filter Channel Spacing	12.5	25.0	kHz
Min 3 dB Bandwidth	+/-3.75	+/- 7.5	kHz
Max 45 dB Stop Band	+/- 8.7	+/-17.5	kHz
Max 65 dB Stop Band	+/-12.5	+/-25	kHz
Group Delay (1 dB BW)	20	10.0	µSec

ABSOLUTE MAXIMUMS	
Input Power	+20 dBm
Input RF Power	-5 dBm

MECHANICAL	
I/O Connectors	Type N Female
Size	2U 19" Rack Mount (19" x 11" x 3.5")



The Ultra-Q, High Power VHF/UHF Bandpass Filter is a tunable filter capable of eliminating adjacent channel and out of band interfering signals with ultra-fine band adjustments and bandwidths as narrow as 12.5 kHz. This low noise and highly selective filter is field-programmable using a PC GUI and controllable through USB, LAN, or LCD. In the case of lost power, there is a failsafe bypass mode built into the system.

The BBUQ has applications in Defense, Land Mobile/Public Safety, SCADA, and commercial two-way radio systems. It solves Narrow Band FCC Mandate interference issues, P25, DMR, NXDN, and Tetra Standards.

Options and Model Numbers

Part Number: SW-300-WXYZ

W SPECIFIES POWER SUPPLY OPTIONS

W	Option
0	120 V Power Adapter
1	48 V DC-DC Converter

X SPECIFIES USB OR LAN CONTROL OPTION

X	Option
0	Front Panel Display and USB Control on Rear Panel
1	Front Panel Display and LAN RJ-45 Control on rear panel
2	Front panel Display and LAN and USB on rear panel

*Note that 2 is the standard version

Y SPECIFIES FILTER BAND WIDTH

Y	Option
0	12.5 KHz Narrow Band channel spacing
1	25.0 KHz Wide Band channel spacing

Z SPECIFIES THE FREQUENCY BAND

Z	Option
1	137-174 MHz VHF-L
2	380-512 MHz UHF-L
3	799-933 MHz UHF-H
4	210-250 MHz VHF-H

*Other Bands may be added so please check with factory

Bascom Hunter maintains a corporate commitment to quality, with our design and manufacturing operations certified to AS9100D and ISO 9001:2015

Specifications Subject to Change



5501 Bascom Way, Baton Rouge, LA 70809
225.590.3553
inquire@bascomhunter.com