

# C-Band Interference Filters

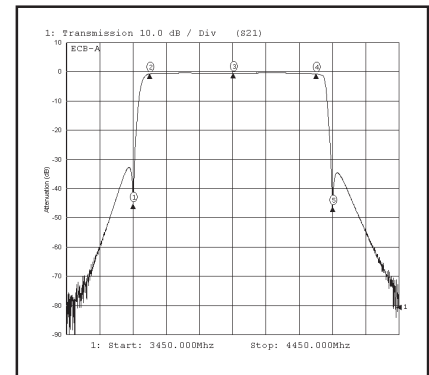
## Increased rejection of the WiMax band

Eagle Comtronics C-Band Interference Filters are designed for use in both single and multi-feed receive antenna applications. The units are easily installed between the C-Band feedhorn and the LNA or LNB. With the enhanced Bandpass filter, these filters offer the **industry's highest out-of-band interference suppression** of cellular frequencies, commercial and military navigational communications (radar), as well as coastal / marine vessels operating below the C-Band. **Typical suppression level of -45 dB is achieved at the lower and upper interfering frequencies, compared to the current industry level of 20 - 25 dB.**

With filtering performed at the C-Band frequencies, the overall picture quality is improved, as the filter prevents overload of the LNA and LNB.

### Typical Specifications:

| Model Number             | ECB-A   | ECB-I  |
|--------------------------|---|--|
| Passband:                | 3.7 GHz - 4.2 GHz   | 3.6 GHz - 4.2 GHz  |
| Insertion Loss:          | -0.4dB typ @ Center Frequency<br>-0.3dB typ rolloff at band edges               | Same<br>Same   |
| VSWR:                    | 1.6:1 typ   | Same   |
| Group Delay:             | 8 nsec max  | Same   |
| Rejection:<br>(Typ.)     | <b>-45 dB @ 3.65/4.25 GHz</b><br>-55 dB @ 3.55/4.35 GHz<br>-70 dB @ 3.5/4.4 GHz | <b>-45 dB @ 3.55/4.25 GHz, 35 dB min</b><br>-55 dB @ 3.45/4.35 GHz<br>-70 dB @ 3.4/4.4 GHz |
| Transmit Band Rejection: | >80 dB typ from 5.8 - 7.075 GHz   | Same   |
| Dimensions:              | 6 3/8" L x 2 7/8" H x 3 3/8" D  | Same   |
| Flanges:                 | CPR 229 grooved - input<br>CPR 229 flat - output                                | Same<br>Same   |
| Construction:            | Aluminum  | Same   |
| Weight:                  | 1.4 lbs approx.   | Same   |



Specifications subject to change without notice.



### Features:

- **Low Insertion Loss**
- **Low Differential Group Delay**
- **High Interference Rejections**
- **Lightweight, Low Profile**
- **Waveguide body & flanges utilize a one piece construction.**

**Custom Bandpass Filter Frequencies  
Available Upon Request**



**7665 Henry Clay Boulevard  
Liverpool, NY 13088**

**www.eaglecomtronics.com • e-mail: sales@eaglecomtronics.com • 1.800.448.7474**

Eagle Comtronics Inc. is a leading manufacturer of RF products. We offer many products as well as a quick response on custom request. For more information email our sales staff: sales@eaglecomtronics.com or visit our web site: www.eaglecomtronics.com.