



# C-Band Interference Filter ECB-A

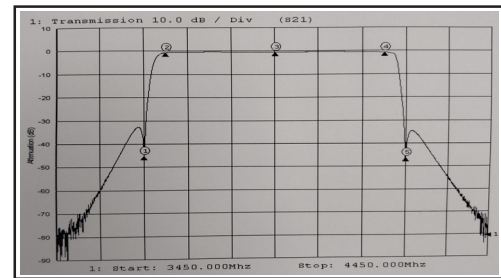
## Passband Range 3.7 - 4.2 GHz

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. This Standard C-Band filter offers 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 to -25 dB.** The ECB-A sets the Standards for all other C-Band filters. It boasts a lightweight sleek design which has been rated by customers and distributors the best C-Band in industry over the last decade and remains unrivaled.

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

### Specifications:

Passband:	3.7 GHz - 4.2 GHz
Insertion Loss:	-0.4dB @ Center Frequency, typ. -0.3dB rolloff at band edges, typ.
VSWR:	1.6:1, typ.
Group Delay:	1.3 nsec across any 1 MHz, typ.
Rejection: (Typ.)	-45 dB @ 3.65/4.25 GHz -55 dB @ 3.55/4.35 GHz -70 dB @ 3.5/4.4 GHz
Transmit Band Rejection:	>80 dB typ from 5.8 - 7.075 GHz
Dimensions:	6 3/8" L x 2 1/8" H x 3 1/8" D
Flanges:	CPR 229 grooved - input CPR 229 flat - output
Construction:	Aluminum
Weight:	1.4 lbs approx.



Specifications subject to improve without notice.



### Features:

- *Enhanced Low Insertion Loss*
- *Significantly Lower Differential Group Delay*
- *Increased Interference Rejections*
- *Extremely Lightweight and Low Profile*
- *Sleek Waveguide body & flanges utilize a one piece construction.*

**Custom Bandpass Filter Frequencies  
Available Upon Request**

Eagle Comtronics Inc. is a leading USA manufacturer of RF products.  
Quick response time, reliability and performance delivered for over 45 years.

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