



ECB-GYf]Yg C-Band Interference Filter



Features:

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

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.

ECB-5G

Passband Range 3.9 - 4.2 GHz This Bandpass filter offers increased suppression below 3880 MHz for cellular frequencies, including 5G, commercial and military navigational communications (radar), as well as coastal / marine vessels operating below the C-Band.

ECB-A

Passband Range 3.7 - 4.2 GHz 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.

ECB-C

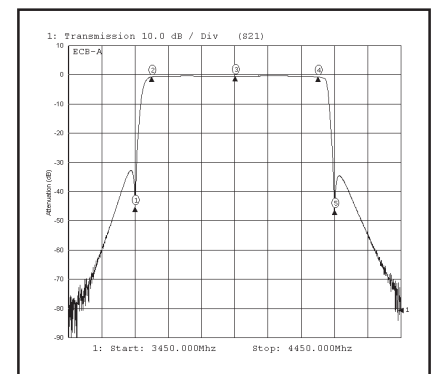
Passband Range 3.625 - 4.2 GHz With filtering performed at the C-Band frequencies, the overall picture quality is improved, as the filter prevents overload of the LNA and LNB.

ECB-I

Passband Range 3.6 - 4.2 GHz The units are easily installed between the C-Band feed horn 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.

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 -0.3dB typ rolloff at band edges	Same
VSWR:	1.6:1 typ	Same
Group Delay:	8 nsec max	Same
Rejection: (Typ.)	-45 dB @ 3.65/4.25 GHz -55 dB @ 3.55/4.35 GHz -70 dB @ 3.5/4.4 GHz	-45 dB @ 3.55/4.25 GHz, 35 dB min -55 dB @ 3.45/4.35 GHz -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 7/8" D	Same
Flanges:	CPR 229 grooved - input CPR 229 flat - output	Same
Construction:	Aluminum	Same
Weight:	1.4 lbs approx.	Same



Specifications subject to change without notice.