



# CEF

Series

## Single-Channel Elimination Filter



- ▶ **CEF550 89-Channel Passband 5-550 MHz (CATV T7-T13 2-78, 95-99) eliminating any single channel between 54-216 MHz (CATV 2-13, 95-99)**
- ▶ **CEF750 125-Channel Passband 54-750 MHz (CATV 2-125) eliminating any single channel between 54-456MHz (CATV 2-62)**
- ▶ **Deep -55dB typical cavity-tuned notch filter for clean signal removal of selected cable channels and subsequent insertion of locally originated signals**
- ▶ **High-Q helical resonators with unique coupling circuitry provide excellent long-term stability**
- ▶ **Sharp filter cut-off edges allow adjacent channels to be processed with negligible loss**
- ▶ **Up to 4 units can be cascaded for multiple channel elimination and reinsertion with negligible interaction**
- ▶ **Compact and efficient design enables single rack unit (1<sup>3</sup>/<sub>4</sub>) height installation saving valuable rack space**
- ▶ **Failsafe installation as input and output may be reversed without effect**

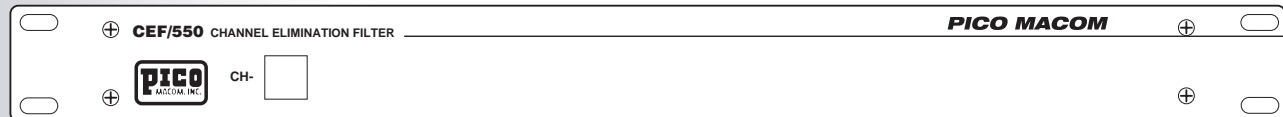
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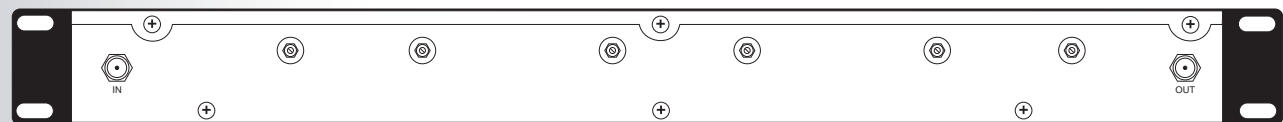
The **Pico Macom CEF550** and **CEF750** are professional grade single channel elimination filters designed to provide a 6MHz-wide carrier-free environment to insert locally originated channels. When used in conjunction with **Pico Macom's** high quality modulators, these units are the most cost-effective method to add locally originated programming to an MATV or CATV system while ensuring the highest quality picture across the band. This unit employs multi-stage cavity bandpass and notch filtering to provide single channel rejection depth typically greater than -55dB, thereby eliminating disruptive carriers and greatly improving picture quality. Also, the unique filter design and sharp frequency cut-off provide minimum adjacent channel disruption and excellent passband frequency response ensuring no degradation in system performance. In systems requiring more than one inserted channel, up to 4 units can be cascaded for multiple channel elimination and reinsertion with negligible interaction. The **CEF550** and **CEF750** are pre-tuned to any channel in the notch range for easy drop-in installation. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

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Front View



Rear View

### Specifications

**Trap Depth:**  
 @ Video & Audio Carriers: -50 dB minimum  
**Insertion Loss:**  
 5-550 MHz: CEF550 -3.0 dB typical  
 5-750 MHz: CEF750 -3.0 dB typical  
**Adjacent Channel Loss:** (Upper Video, Lower Sound)  
 Low-Band: 5 dB  
 High, Mid, Super, Hyper 7 dB  
**Input Return Loss:** 15 dB (except adjacent channels)  
**Temperature Stability:** -10° C to +40° C, ± 50 kHz  
**Dimensions:** 19"(L) x 9"(D) x 1 3/4"(H)  
**Weight:** CEF550 4.7 lbs.  
 CEF750 4.7 lbs.  
**Connectors:** "F" type

### Ordering Information

**CEF/550** - Channel 550 MHz  
**CEF/750** - Channel 750 MHz