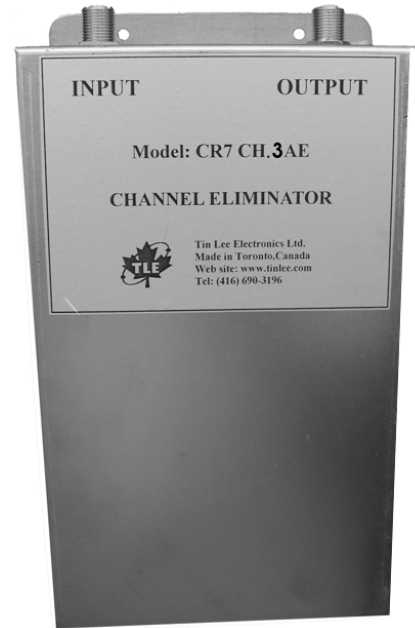


Economical Single Channel Deletion Filters - Low Band Series

CR7-3AE channel 3 “Brickwall” Bandstop

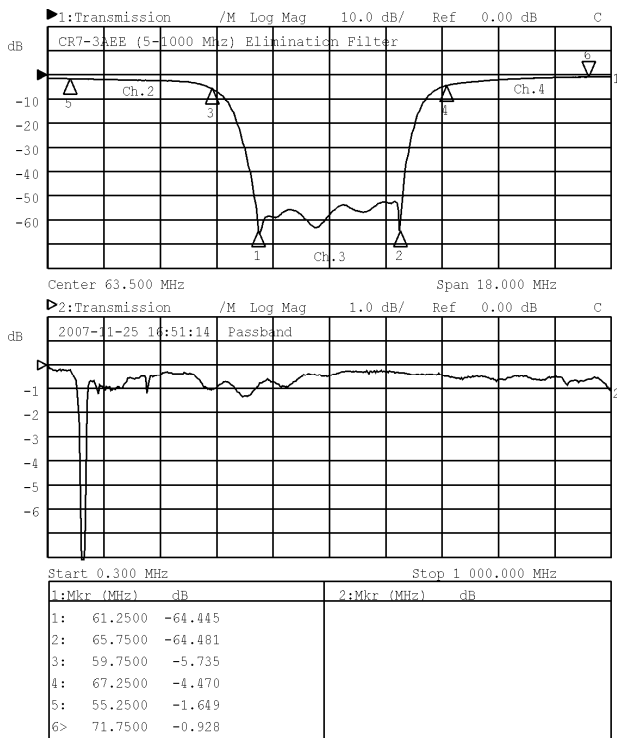
Model CR7-3AE is a high attenuation bandstop. It is installed inline with cable TV signal, and is designed to delete TV channel 3 from the CATV spectrum, to allow insertion of a local channel 3 signal (e.g. modulator ch.3 from DVD, Sat.Rec., Camera). Model CR7-3AE will pass all other channels, with low impact on upper and lower adjacent channels 2 and 4. This model is also available for channels 2 thru 6, 95(A5)-99(A1). Specify channel (CR7-#AE), e.g., CR7-6AE.

- Stopband: >50 dB minimum
- Low impact on adjacent channels
- Bandwidth: DC-1000 MHz
- Passband thru loss: 1.5 dB ± .5 dB
- Good temperature stability 0° to +35° C
- Easy installation - no power or adjustments
- Supplied with final production graph



Dim (in): 7.5L x 4.0 W x 2.0 H

Example graph - CR7-3AE



CR7-3AE Specifications

Channels available	Passband (MHz)	Passband Loss (dB) *	Adjacent Carrier Loss	
			Lower	Upper
2, 3, 4	DC-1000	1.5 ± .5	< 6.0	< 4.5
5, 6	DC-1000	1.5 ± .5	< 6.0	< 5.0
95 to 99	DC-1000	1.5 ± .5	< 6.5	< 5.5
General Specifications				
Stopband (dB):		>55 carriers, >50 in-band		
Connectors:		F-type female		
Impedance:		75 ohms		
Operating Temperature		0 to +35 ° C (32 to 100 ° F)		
Mounting		Wall		
Weight		2.0 (lbs)		

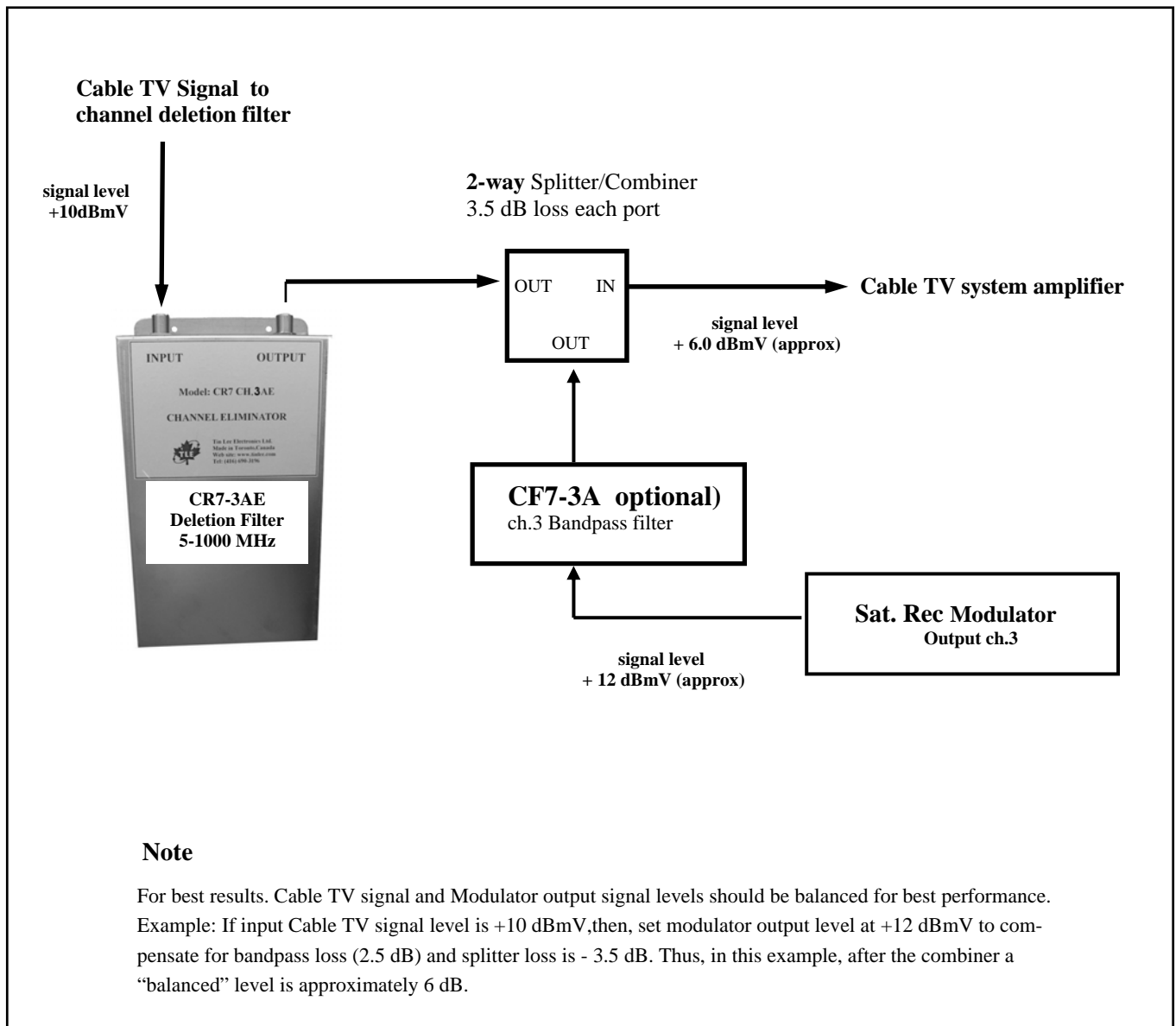




Hookup for Deletion Filter, Modulator and Bandpass, and 2-Way Splitter

- Referring to hookup diagram below, deletion filter ,CR7-3AE, is connected inline with Cable TV signal to remove designated channel only (ch.3).
- Optional bandpass, CF7-3AE, is installed at modulated Satellite Receiver ch.3 output to prevent adjacent channel interference.
- The Cable TV signal and Ch.3 source can be combined with 2-Way Signal splitter.
- Figure below shows example of balanced signal levels

CR7-3AE , Modulator ch.3, and CF7-3A hookup with 2-Way Splitter





Hookup for Deletion Filter and Modulator (300VMF)

General Description

Referring to the hookup diagram below

Deletion Filter model CR7-ch.3AE: Install filter inline with Cable TV signal to attenuate ch. 3. The filter will attenuate ch.3 only, with low impact on adjacent chs 2 and 4, and, pass all other signals with less than 2 dB loss.

Modulator model 300VMF-ch. 3: The modulator provides TV signal ch.3 output from composite video and audio source (e.g., security camera). The modulator is “adjacent friendly” and will not interfere with adjacent chs 2 and 4, provided +55 dBmV signal levels.

Combiner DC-182R-30dB: To combine modulator with Cable TV signal use directional coupler DC-182R-30dB. Model DC-182-30dB tap attenuates the modulator output * and is in used “reverse” for higher isolation between cable and modulator.

Hookup of CR7-3AE, 300VMF and DC-182-30dB (Please refer to diagram below):

1. Connect 300VMF-ch.3 RF output to TAP of DC-182R-30dB;
2. Connect Cable Signal, with CR7-3AE inline, to OUTPUT of DC-182R-30dB;
3. Combined Cable TV/ Modulator output to TV distribution system is taken from the INPUT of DC-182R-30dB;
4. Check for modulator interference on adjacent chs 2 and 4. If interference occurs, reduce the modulator output at level control -15dB. Adjust modulator to similar level as the cable signal.

* Use Combiner with lower Tap value for modulators with lower output levels, e.g., use 10 dB tap for +20 dB modulator, or, use two-way

CR7-3AE and 300 VMF hookup with 30 dB coupler

