



CR7E-CH.59 Deletion Filter, Coupler and Modulator Hookup Information

- CR7E-CH. 59 Deletion Filter is put inline with Cable TV signal to remove channel 59.
- CR7E-ch.59 has semi-adjacent channel selectivity, i.e., it will impact channels 58 and 60.
- Channel 59 Modulator provides TV channel 59 output (+55 dBmV) from Video/Audio inputs
- Channel 59 Modulators has individual controls for A/V ratio, Video, Audio and Output Level
- Directional Coupler combines the Cable TV signal minus deleted channel 59 with the modulator ch.59
- Coupler (-30dB tap) is used in reverse to provide >45 dB isolate between modulator and CATV signal
- Signal Levels can be balanced for best performance—use modulator 15 dB Level Control
- Example: Input Cable TV signal level is +10 dBmV and tap loss is -30 dB, modulator output level (+55 dBmV). Adjust modulator output to 40 dBmV (approx) to be level with the Cable signal.

Cable TV Signal to CR7E-59 filter input

+10 dBmV



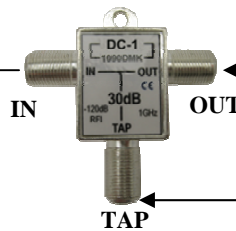
CR7E-59

Deletion Filter

This filter will attenuate ch.59 by 55 dB and pass all other Cable signals from 5 to 870 MHz (Internet and Digital services). Filter will impact chs 58 and 60. Refer to CE7 Series for adjacent Channel Selectivity.

Cable TV signal output to TV distribution system.

+8 dBmV



+8 dBmV

Directional Coupler (30 dB)

Reverse coupling minimizes modulator output traveling back towards the filter. System Isolation 45 dB typical.

+40 dBmV

Output Level Control



Modulator Rear View

Video input, e.g., Lobby Camera

Audio in

Output Level +55dBmV

Modulator CH.59

Output level can be adjusted 15dB. This allows modulator and cable signals to be properly leveled. Ex: Set Output level +40 to 45 dBmV for +10 dBmV cable signal.

