



# Single QAM Channel Deletion Filters - CE7Q-Series

CATV QAM "Brickwall" Bandstop: Available for CATV Hyper band channels 50 thru 135

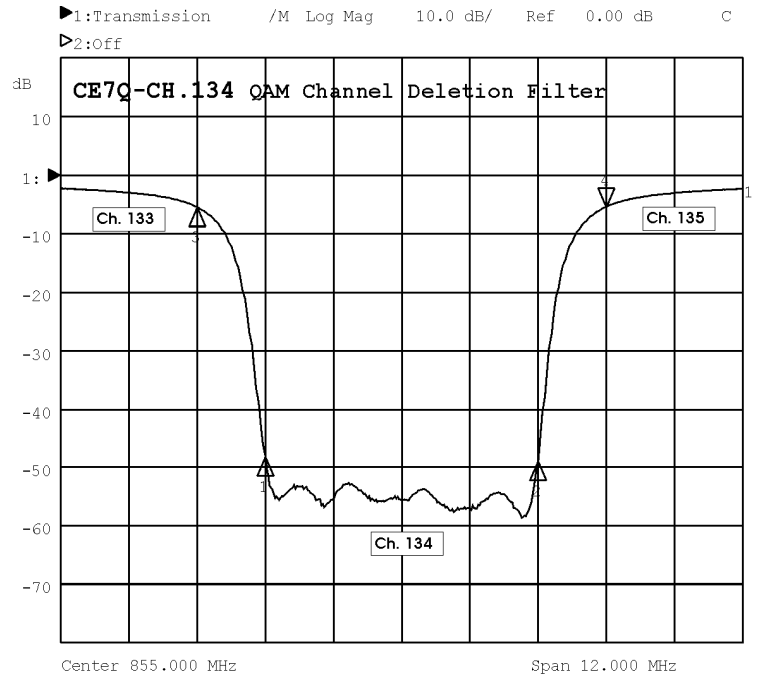
**CE7Q-CH.90-135**  
Rack Mounting



**CE7Q-CH.90-135**  
Wall Mounting

**CE7Q series bandstop**, is designed to delete one QAM channel from the CATV spectrum, to allow insertion of local program. Example: delete CATV ch.134 for insertion of local QAM modulator ch.134. CE7Q will pass all other channels, including lower and upper adjacent QAM channels 133 and 135. Suitable for Adjacent Channel operation

- Channels available: 50 - 135 (370 MHz - 860 MHz)
- Stopband Rejection: 45dB min ( $F_c \pm 2.4$  MHz )
- Low impact on adjacent channels
- <3 dB impact on Adjacent channel SNR
- Operating Bandwidth: DC to 1000 MHz
- Passband loss: <1.0 dB  $\pm$  .5 dB ripple
- Return Loss: 15 dB typical
- Power passing: 2 amp max, 60 vac
- Good temperature stability 0° to +35° C
- Easy installation - no power or adjustments
- Supplied with final production graphs



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 852.6000	-48.211		
2: 857.4000	-48.907		
3: 851.4000	-5.416		
4> 858.6000	-5.385		

**Example graph: CE7Q-ch.134**

## SPECIFICATIONS

Channels	Passband (MHz)	Passband Loss (dB)	Stopband (dB): $F_c \pm 2.4$ MHz	Adjacent Loss (dB) ( $F_c \pm 4.8$ MHz)		Impact on Chs' SNR * Lower / Inserted / Upper
				Lower	Upper	
<b>59-89</b>	DC -1000	.75 $\pm$ .5	50 dB min	< 4.5	< 4.5	2 dB, 2 dB, 2 dB
<b>90-104</b>	DC -1000	1 $\pm$ .5	48 dB min	< 5.0	< 5.0	2.5 dB, 2 dB, 2.5 dB
<b>105—135</b>	DC -1000	1 $\pm$ .5	45 dB min	< 5.5	< 5.5	2.5 dB, 2 dB, 2.5 dB

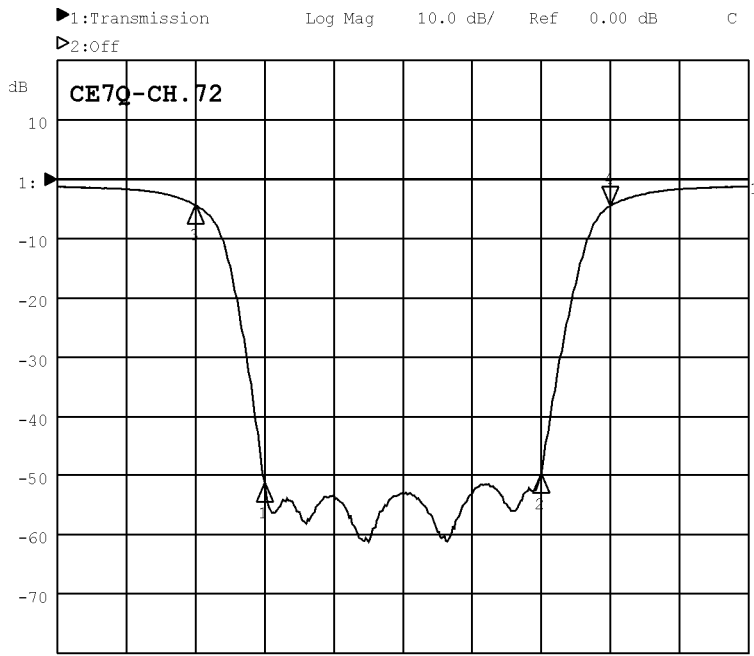
Connectors, Impedance:: F-type female: 75 ohms; Optional Connectors: BNC or N female :50 ohms  
 Operating Temperature: 10 to +35 °C ; Extended Operating Temperature -10+ 40° C (20-120° F); Power pass: 2 amp, 60 AC max  
 CE7Q chs 59 –89: Dims (in): 19L x 1.75H RM (rack mount) , or, 15.5L x 9W x 1.75H WM (wall mount); Weight: 3 lbs  
 CE7Q chs 90 –135: Dims (in): 19L x 3.5H RM (rack mount), or, 15.5L x 9W x 3.5H WM (wall mount); Weight: 6 lbs

\* For filter with 3 dB impact on SNR (FEC on), a minimum signal SNR at filter input of +34dB is recommended.  
Note: Inserted Channel signal level should be similar to signal level of the adjacent channels.

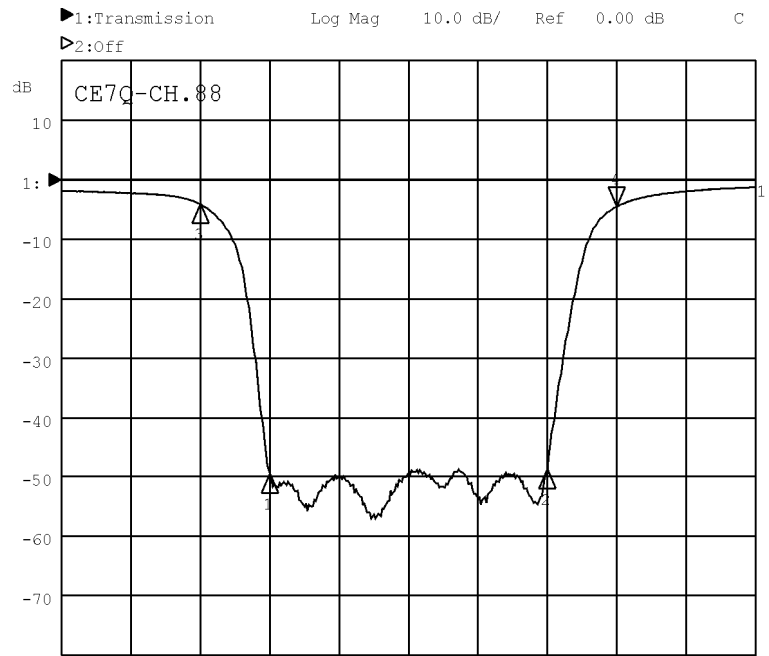




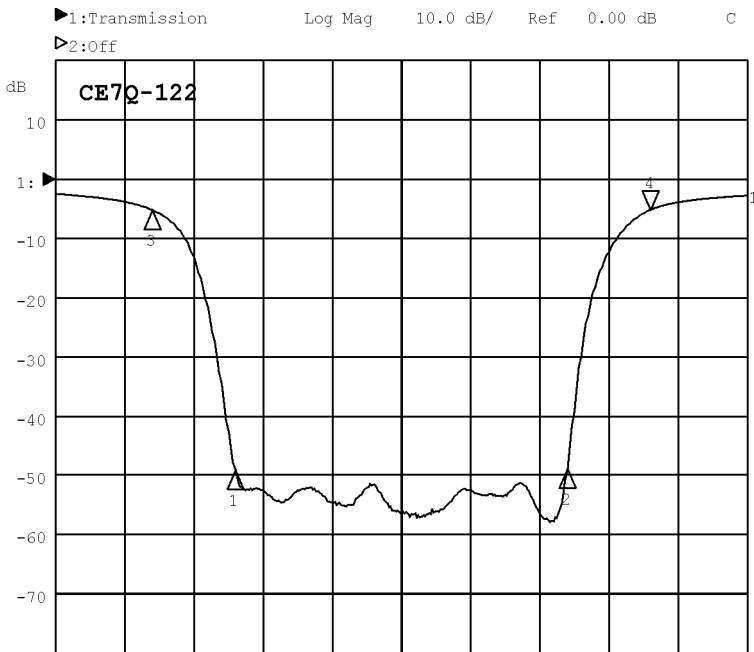
# Example Graphs Single QAM Channel Deletion Filters - CE7Q-Series



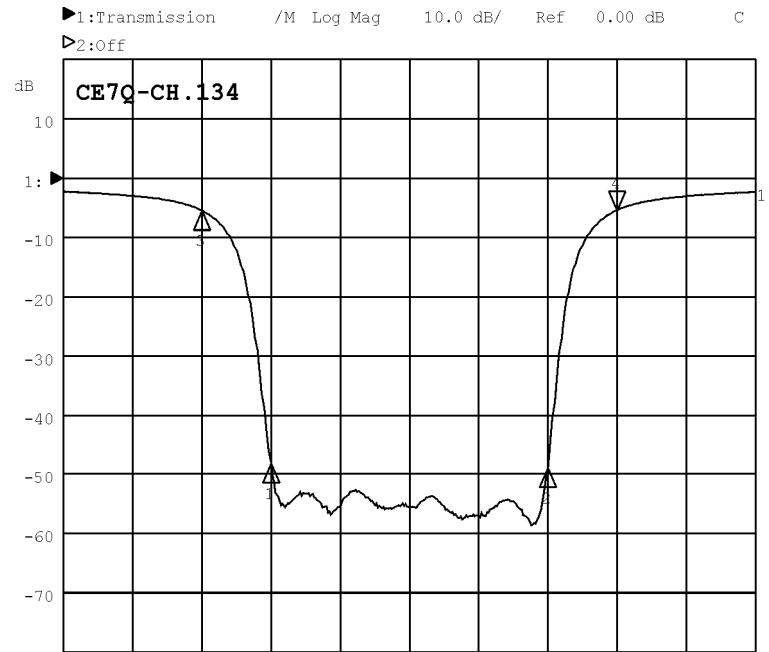
1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 510.6000	-51.372		
2: 515.4000	-49.811		
3: 509.4000	-4.342		
4> 516.6000	-4.537		



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 606.6000	-49.414		
2: 611.4000	-48.804		
3: 605.4000	-4.104		
4> 612.6000	-4.558		



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 780.6000	-49.187		
2: 785.4000	-49.067		
3: 779.4000	-5.163		
4> 786.6000	-5.170		



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1: 852.6000	-48.211		
2: 857.4000	-48.907		
3: 851.4000	-5.416		
4> 858.6000	-5.385		

