

### Bandpass for Off-Air TV/FM reception and RF systems (any channel from 5 to 800 MHz)

Model CF7 is designed pass a standard TV channel, or, a preferred band of frequencies (6 to 8 MHz), and, attenuate (>20dB) all higher and lower signals at  $\pm 5$  MHz (VHF) to ±10 MHz (UHF) from pass band edge (see example graphs below). Operating bandwidth is 5 to 1000 MHz.

- CF7 is available for 6 or 8 MHz Off-the-Air chs: VHF 2-13, UHF 14 - 69. Also CATV QAM chs: T7 - T13, 2 - 135
- CF7X is designed for outdoor antenna mounting.
- CF7 can be customized for special applications, e.g., passband from 7 to 12 MHz, 50 ohms impedance ports.

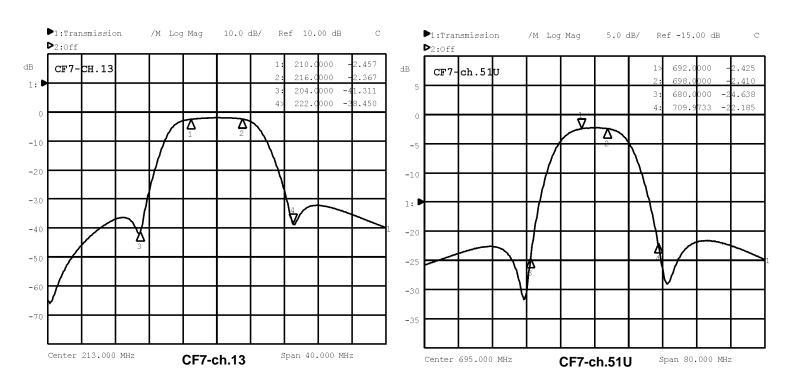
#### Other Bandpass filter models:

Refer to model CF7 HR series and BP7-UHC series for premium UHF bandpass filtering (lower insertion loss, steeper skirts and higher out-of-band rejection).

Refer to model CF7-ch.FM for FM band filtering.



CF7-Fc (BW), Specify Fc (MHz) & BW-e.g., CF7- 500 (8)



#### Band pass Specifications (6 MHz)

Models	CF7-VHF	CF7-UHF	General Specifications	
Pass band (6 MHz)	VHF (54-216 MHz)	UHF (470-800 MHz)	Connectors - 75 ohm	F-female, Option: N, BNC
Insertion Loss / Delay	≤2.5 dB; <50 nS	≤2.5 dB; <50 nS	RF Power Handling	Up to 1 Watt
Return Loss (dB) :	≥18 (VSWR 1.30)	≥16 (VSWR 1.30)	Dimensions (in):	4 L x 3 D x 1.75H
Attenuation > 20 dB	±3-4 MHz band edge	±10-12 MHz band edge	Shipping Weight	1 lbs
Connectors options	50 ohm: BNC, SMA, N or TNC		Operating Temperature	-10° to +40° C



# Bandpass for Off-Air TV/FM reception and RF systems (any channel from 150-800 MHz)

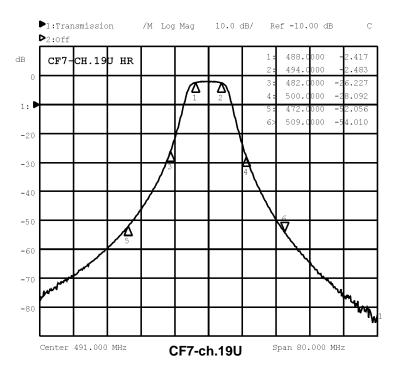
Model CF7 HR is designed to pass a standard TV channel, or a preferred 6 MHz frequency band and suppress upper and lower frequencies approximately 4 MHz to 10 MHz from pass band edges. It provides steep skirt and high out-of-band rejection. Available for VHF Hi-band, UHF TV channels and UHF +700 MHz Safety and Commercial bands. CF7 HR is available for any 6 to 8 MHz channel from 170 to 800 MHz.

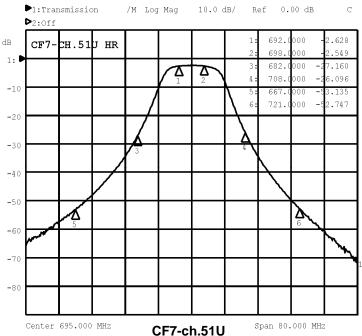
Available in indoor case (outdoor enclosure—inquire). CF7 –HR pass band can be customized for any frequency band (4 to 8 mHz, from 150 to 800 MHz).

Refer to model BP7-UHC for UHF cavity type bandpass - low loss, steep skirts and higher out-of-band rejection at UHF frequencies (400 to 900 MHz).



Order as: CF7-ch.# HR (Specify ch. e.g., 19U) or CF7-Fc (BW) HR (Specify Fc (MHz)& bandwidth—e.g., 650 (8)





## **Band pass Specifications (6 MHz)**

Models	CF7- ch.VHF HR	CF7-ch.UHF HR	General Specifications	
Pass band (6 MHz)	VHF (174-216 MHz)	UHF (470-700 MHz)	Operating Bandwidth	0 to 1000 MHz
Insertion Loss (dB)	≤1.75 dB	≤2.5 dB	Connectors - 75 ohm	F-female (standard)
Return Loss (dB)	≥18 (VSWR 1.30)	≥16 (VSWR 1.38)	RF Power Handling	Up to 1 Watt
Flatness / Delay	0.5 dB; <50 nS	0.5 dB; <50 nS	Operating Temperature	-10° to +40° C
Attenuation > 25 dB	±5-6 MHz band edge	$\pm 6\text{-}10$ MHz band edge	Shipping Weight (lbs):	1
Attenuation > 50 dB	±15 MHz band edge	$\pm 25$ MHz band edge	<b>Connectors options:</b>	75 ohms : N, BNC female
			Connectors 50 ohms	BNC, SMA, N or TNC

Tin Lee Electronic Ltd. Canada Tel.: (416) 690-3196 Fax(416) 690-0932 Email: info@tinlee.com Website: www.tinlee.com