



Wideband FM Band pass Filters: BP7-FM, BP7-FM/6 and CF7-FM

BP7-FM

Model BP7-CH.FM is designed to pass FM band only and suppress all signals outside the FM band. BP7-CH.FM provides >50 dB out-of band rejection starting ± 6 MHz away from band edge, with low pass band insertion loss.

BP7-FM/6

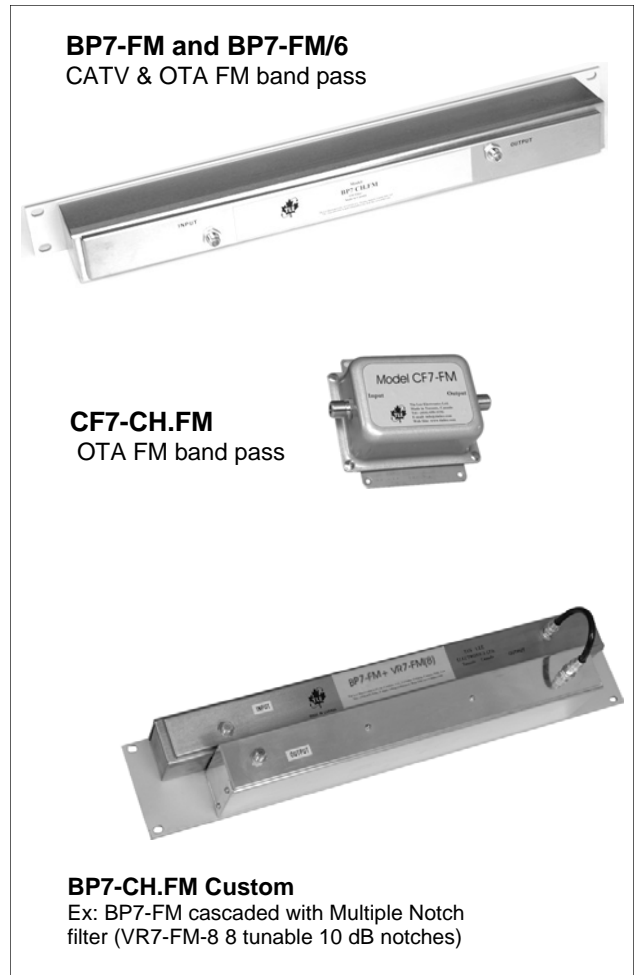
Model BP7-FM/6 is similar to BP7-FM except the pass band is 90 to 108 MHz, and it provides >45 dB rejection at ch. 6.

CF7-FM

Model CF7-FM, antenna FM band-pass, provides >30 dB out-of-band rejection, 1.25 dB insertion loss. Model CF7-FM/6 can be adjusted to provide >20 dB rejection of ch.6, and pass 92-108 (CF7-FM/6). RF Power handling is up to 10 watts. Available in Indoor or outdoor enclosure.

In General

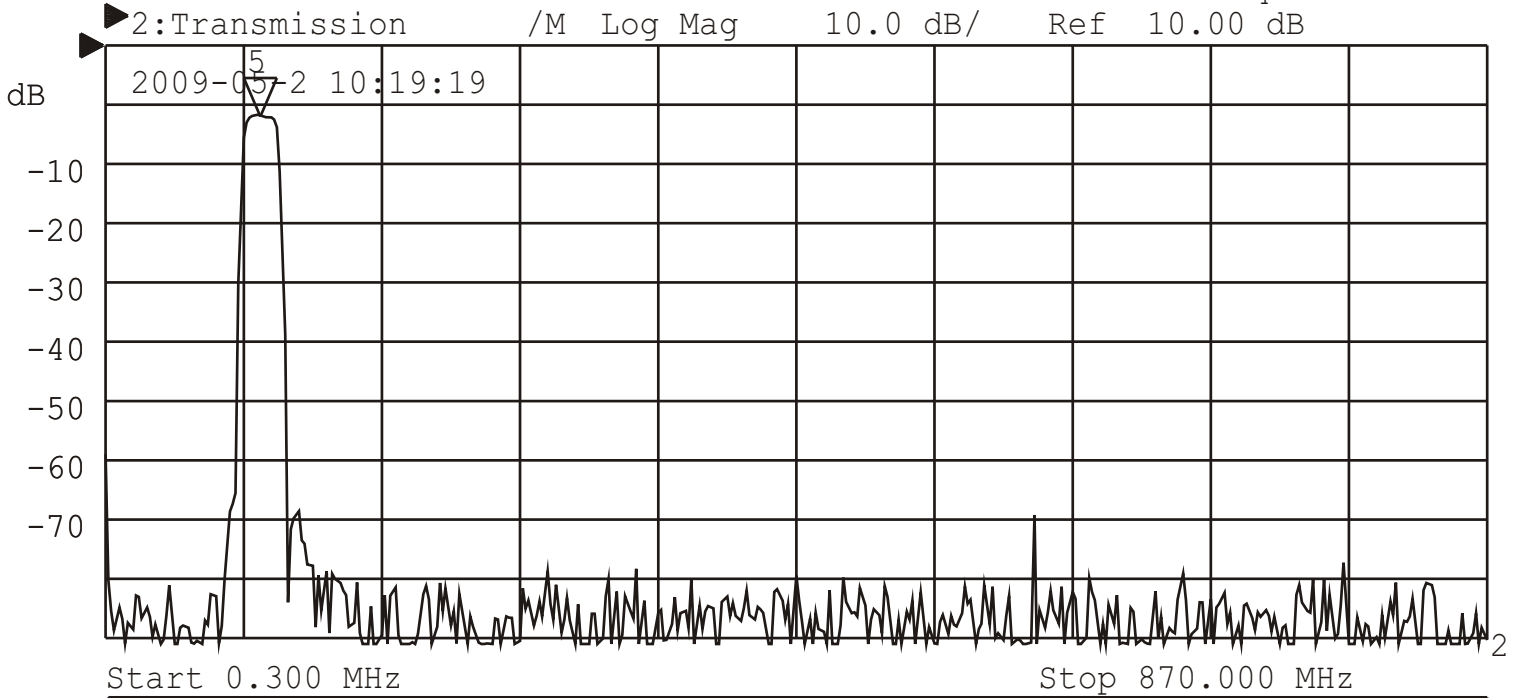
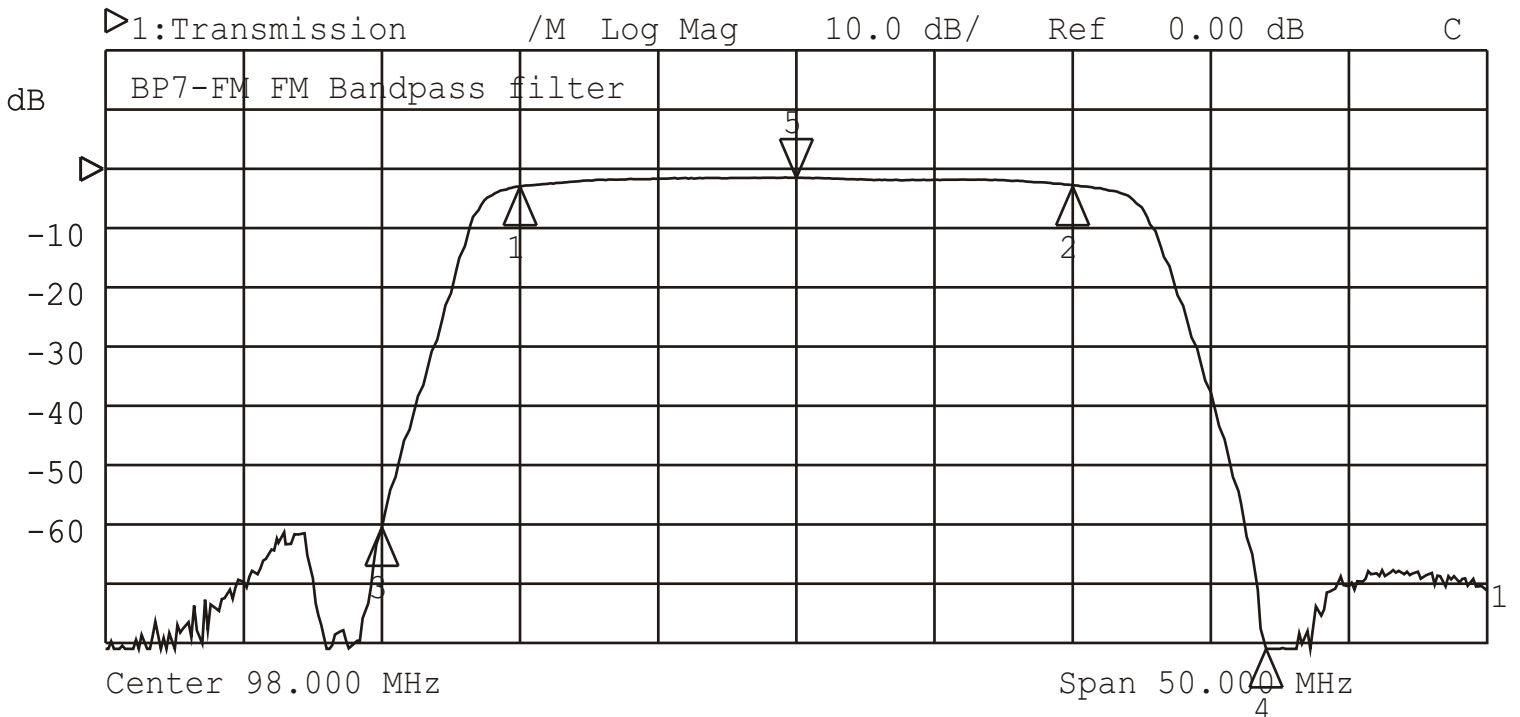
- All three filters are 75 ohms impedance, and have 50 ohms impedance option for SMA, BNC or N connectors
- All three filters can also be cascaded with FM notches for additional in-band signal filtering (see photo ex:).
- Temperature stability is -10° to $+40^{\circ}$ C
- Easy to install (no power or adjustments)
- Supplied with final production graphs.



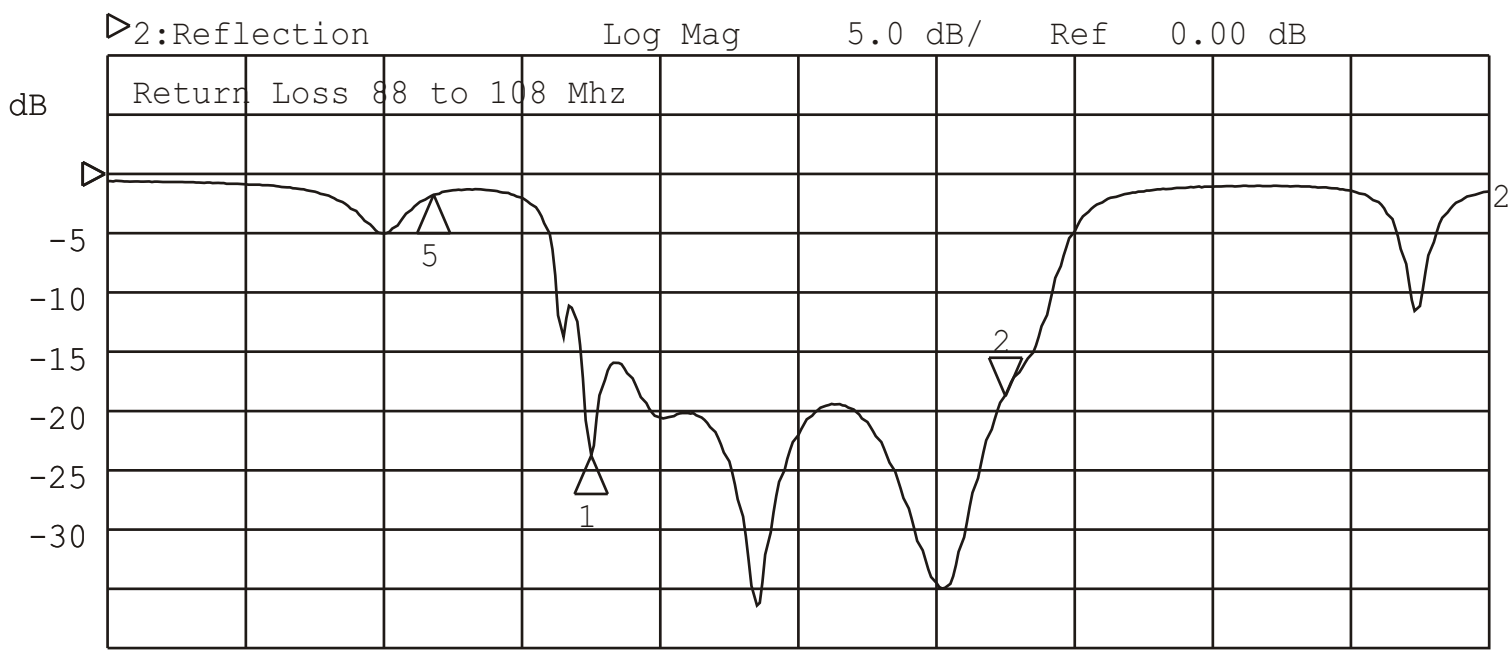
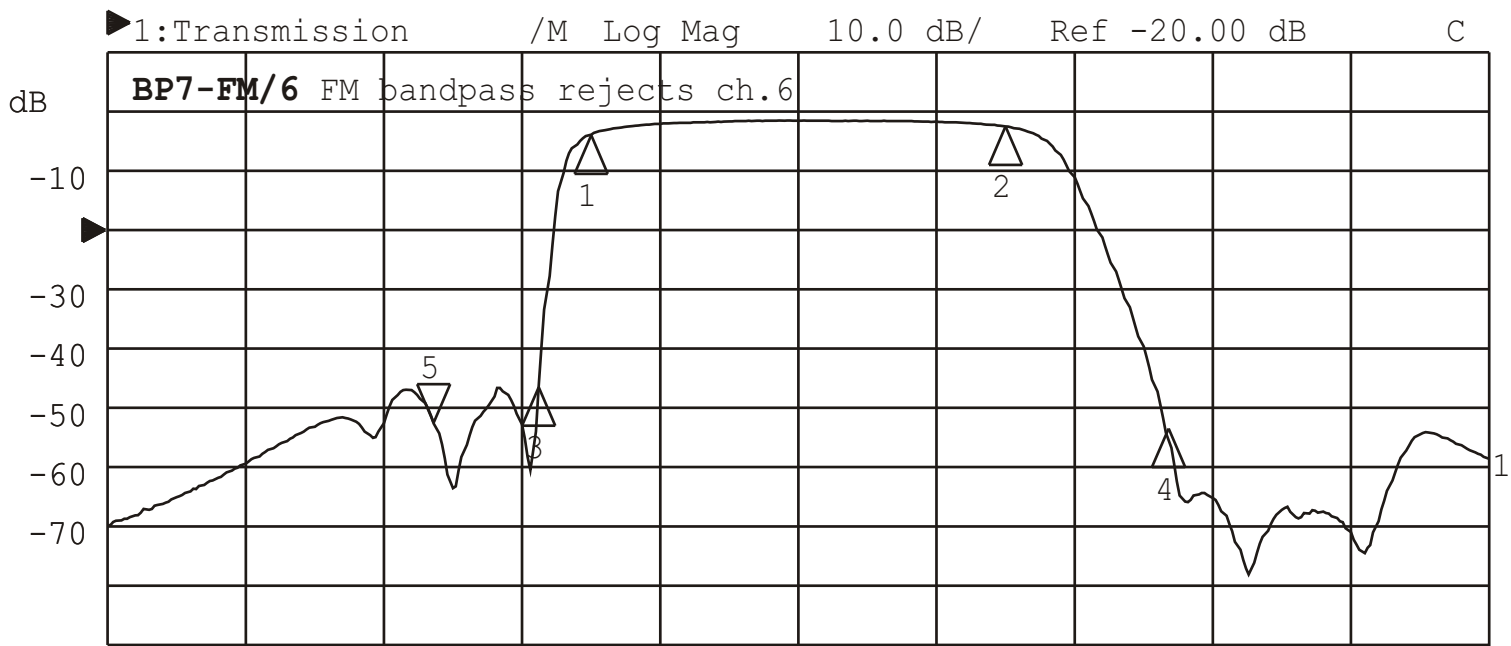
FM Band pass Specifications

Models	BP7-FM	BP7-FM/6	CF7-FM
Pass band Range (MHz)	88-108	90.5-108	88-108 MHz
Insertion Loss (dB):	2 dB, 3 dB at edges	2 dB, 3.5dB at 90.5 MHz	1.5 dB, 2.0 dB at edges
Return Loss (dB) - 50 ohms:	16 (VSWR 1.38)	16 (VSWR 1.38)	18 (VSWR 1.29)
Attenuation > 50 dB	0-83, 115-1000 MHz	0-88, 115-1000 MHz	30 dB 0-82, 115-800 MHz
RF Power Handling:	Up to 5 Watt	Up to 5 Watt	Up to 10 Watt
Dimensions (in):	19 L x 3 D x 1.75H	19 L x 3 D x 1.75H	4.0L x 2.5W x 3.0 H
Ship Weight (lbs):	3	3	0.5
Connectors - 75 ohm	F-female - standard, BNC female optional		
Connectors - 50 ohm option	BNC, SMA, or N type, female		

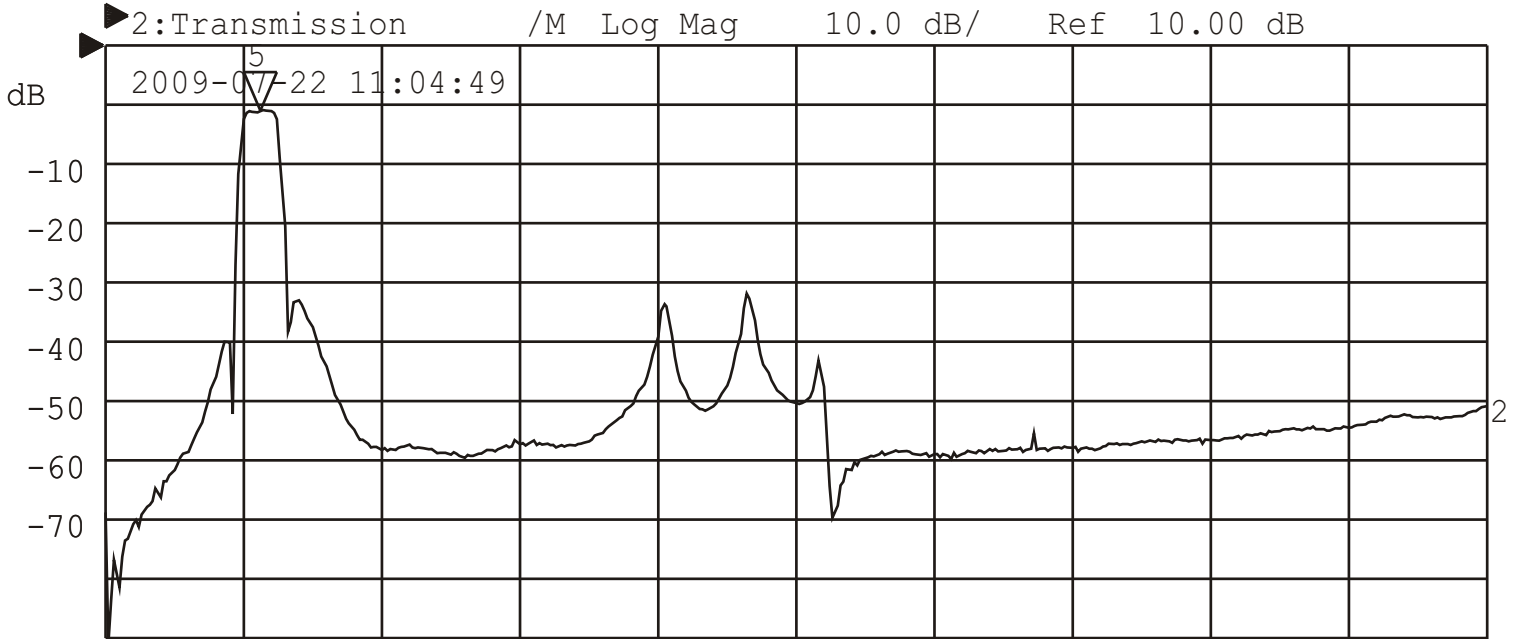
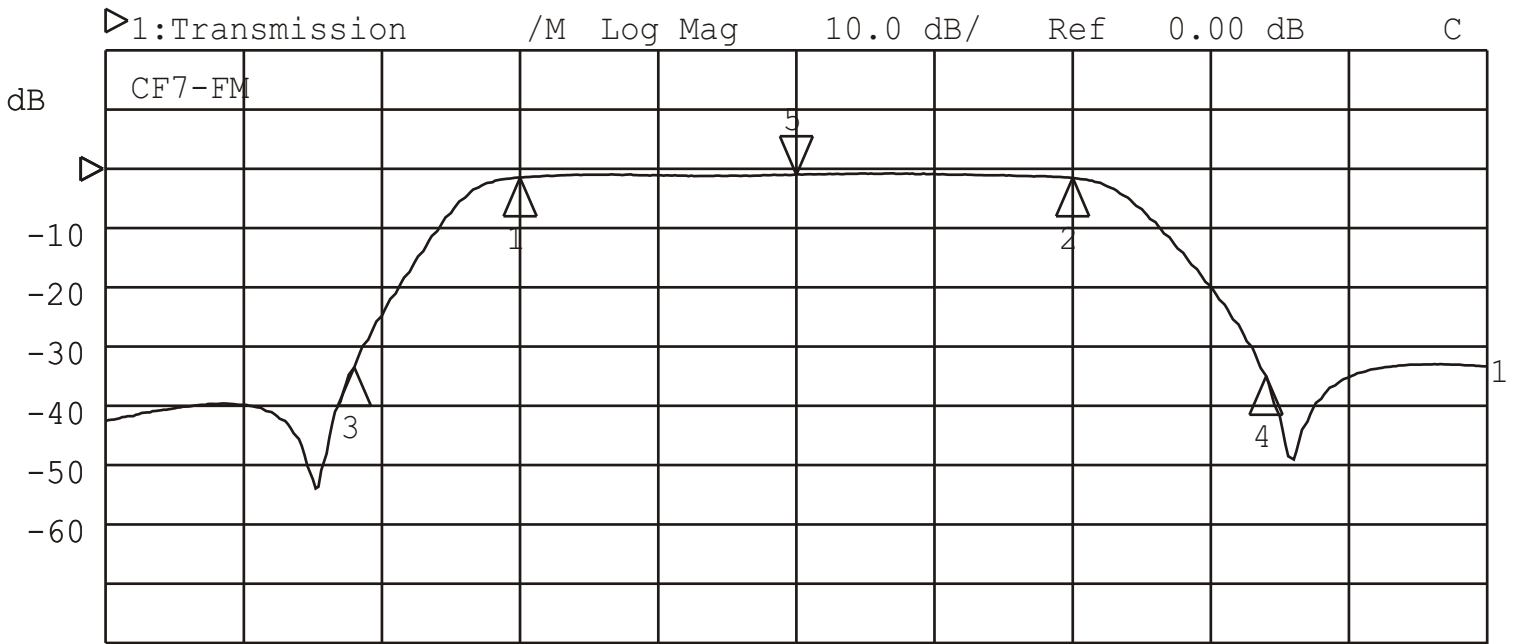




1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	88.0000	-2.965	
2:	108.0000	-2.768	
3:	83.0000	-60.544	
4:	115.0000	-81.699	
5>	98.0000	-1.480	5> 98.0000 -1.792



1:Mkr (MHz) dB		2:Mkr (MHz) dB	
1:	90.0000 -3.844	1:	90.0000 -23.719
2:	108.0000 -2.518	2>	108.0000 -18.644
3:	87.7500 -46.317		
4:	115.0000 -53.354		
5>	83.2500 -52.661	5:	83.2500 -1.748



1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
1:	88.0000	-1.463	
2:	108.0000	-1.551	
3:	82.0000	-33.485	
4:	115.0000	-34.933	
5>	98.0000	-0.946	5> 98.0000 -1.125