

# FM filters

## TYPES

BF2-2C300  
BF2-2C1K5  
BF2-2C4K0  
BF2-2C6K0  
BF2-2C10K  
BF2-2C20K

## TYPE DESCRIPTION

**B**Fx-**y**C**ppp**

**BF** - band-pass filter

x - frequency range:

**2** - FM band (87,5 - 108 MHz)

yC - number of cavities:

**2C** - 2 cavity filter

ppp - maximum input power:

**300** - up to 300 W

**4K0** - up to 4 kW

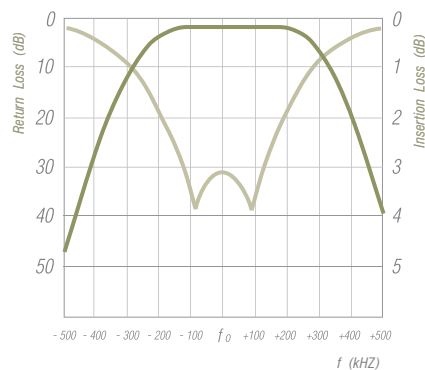
**20K** - up to 20 kW

This series of filters are designed to attenuate frequencies outside a narrow pass-band in the FM frequency range. The band-pass filters consist of two magnetic coupled coaxial resonators with adjustable coupling and input/output coupling loops. The power rating of these filters depends on the dimensions of the filter and the shape of the amplitude/frequency profile. A range of filters is available to cover the power range from 300 W to 20 kW.

Beryllium bronze is used for spring materials, giving the tuning section a life-time guarantee.

All filters are factory tuned to specified frequency. They are also retunable on whole frequency band.

## return loss and insertion loss



## specifications

	BF2-2C300	BF2-2C1K5	BF2-2C4K0	BF2-2C6K0	BF2-2C10K	BF2-2C20K
Frequency range	87,5 - 108 MHz					
Impedance	50 Ω					
Number of cavities	2					
Return loss f0 +/- 100 kHz	> 30 dB					
Max. Input power*	300 W	1,5 kW	4 kW	6 kW	10 kW	20 kW
Input connector	N, DIN 7/16, EIA 7/8"	EIA 7/8"	EIA 7/8" EIA 1 5/8"	EIA 1 5/8" EIA 3 1/8"	EIA 1 5/8"	EIA 3 1/8"
Insertion loss *	< 0,8 dB	< 0,5 dB	< 0,25 dB	< 0,2 dB	< 0,2 dB	< 0,2 dB
External dimensions (n x w x d mm)	895 x 215 x 105	965 x 330 x 180	980 x 620 x 325	970 x 830 x 430 mm	970 x 830 x 430 mm	990 x 1025 x 510 mm
Weight	15 kg	22 kg	41 kg	80 kg	84 kg	150 kg
Material	aluminium, brass, silver plated					
Temperature range	From - 10 °C to + 50 °C					