FM FILTERS

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 are available in design with 2 or 3 cavities 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.

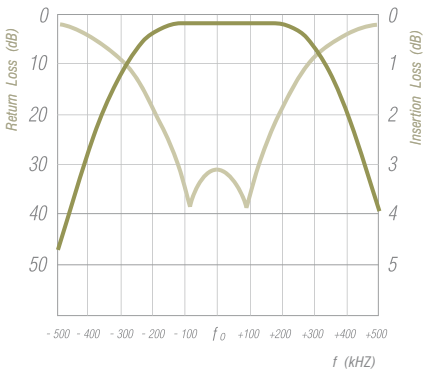
All filters are factory tuned to specified frequency. They are also retunable on whole frequency band.

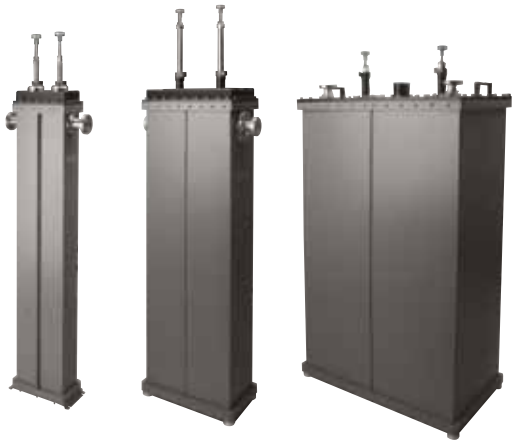
TYPES

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

BF2-3C300
BF2-3C1K5
BF2-3C4K0
BF2-3C6K0
BF2-3C10K
BF2-3C20K

Return Loss And Insertion Loss





BF2-2C300 BF2-2C1K5 BF2-2C6K0

TYPE DESCRIPTION

BFx-yCppp

BF - band-pass filter

x - frequency range:
2 - FM band (87,5 - 108 MHz)

yC - number of cavities:
2C - 2 cavity filter
3C - 3 cavity filter

ppp - maximum input power:
300 - up to 300 W
4K0 - up to 4 kW
20K - up to 20 kW

Specifications

	BF2-2C300 BF2-3C300	BF2-2C1K5 BF2-3C1K5	BF2-2C4K0 BF2-3C4K0	BF2-2C6K0 BF2-3C6K0	BF2-2C10K BF2-3C10K	BF2-2C20K BF2-3C20K
Frequency range	87,5 - 108 MHz					
Impedance	50 Ω					
Number of cavities	2 and 3					
Return loss f0 +/- 100 kHz	> 28 dB					
Isolation	> 30 dB					
Insertion loss - 2C	< 0,8 dB	< 0,5 dB	< 0,3 dB	< 0,3 dB	< 0,25 dB	< 0,25 dB
3C	< 1,2 dB	< 0,8 dB	< 0,5 dB	< 0,5 dB	< 0,4 dB	< 0,4 dB
Max. Input power*	0,3	1,5	4	6	10	20
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"	EIA 3 1/8", EIA 4 1/2"
Temperature range	From - 5 °C to + 55 °C					
External dimensions (mm) - 2C	895 x 215 x 105	965 x 330 x 180	980 x 620 x 325	970 x 830 x 430	970 x 830 x 430	990 x 1.025 x 510
Weight (kg) - 2C	15	22	41	80	84	150
3C	23	32	60	118	123	222
Material	aluminium, brass, silver plated					
Cooling	passive				air forced	passive