

- **Low Cost**
- **High Selectivity**
- **Low Insertion Loss**
- **Good Return Loss**

Fiplex' broadcast line of "FM Band Pass Filters" are high Q devices used to filtrate and eliminate spurious responses that are generated in the FM transmitter.

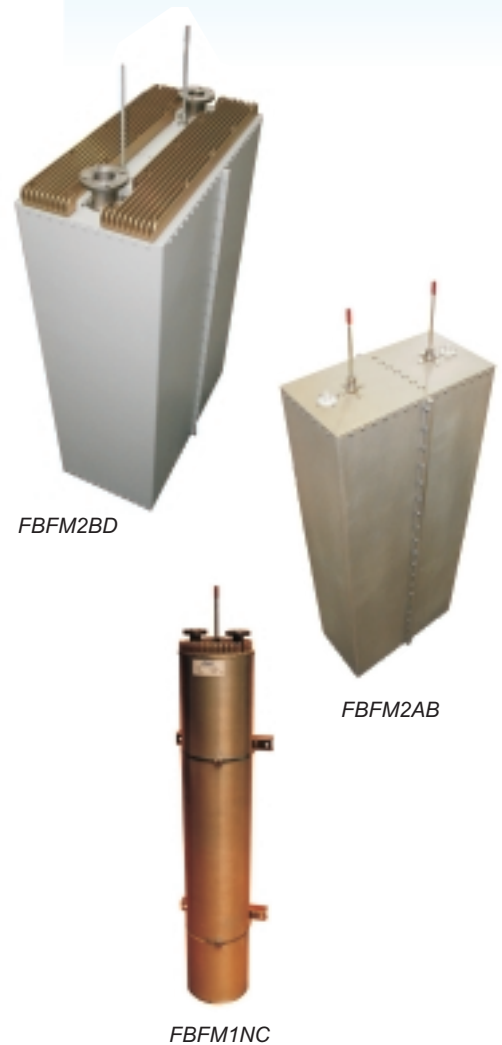
FBFM Series utilize passivated aluminum cavities, with silver plated resonant elements, to ensure long time durability and low incidental Insertion Loss.

As tuning control, INVAR rods are employed to achieve thermal stability.

From one to six cavities models are available, depending on the filtering requirements.

Mounting Frame is provided with thermal converted paint.

Standard color is Raal 7032. Other colors are available upon request.



ELECTRICAL SPECIFICATIONS	
Frequency	88 – 108 MHz
Frequency, BW	F0 +/- 100 KHz
Max. Power	See table below
Insertion Loss	See table below
Rejection	See table below
Impedance	50 Ohms
Connectors	See table below
Return Loss	20 dB min

FM CHANNELS			
Frequency range	88 – 108	88 – 108	88 – 108
Model Designation	FBFM1NB	FBFM2AB	FBFM3AB
Number of cavities	1	2	3
Size of Cavities	7" Round	8" x 8" Square	8" x 8" Square
Maximum Power	500 W	500 W	500 W
Insertion Loss at Fo	0.15 dB	0.25 dB	0.45 dB
Insertion Loss at BW	-	0.35 dB	0.50 dB
Rejection +/- 3MHz Fo	12 dB	28 dB	40 dB
Connectors	N(f) ; DIN 71/6	N(f) ; DIN 71/6	N(f) ; DIN 71/6
Frequency range	88 – 108	88 – 108	88 – 108
Model Designation	FBFM1NC	FBFM2AC	FBFM3AC
Number of cavities	1	2	3
Size of Cavities	7" Round	8" x 8" Square	8" x 8" Square
Maximum Power	1 KW	1 KW	1 KW
Insertion Loss at Fo	0.15 dB	0.25 dB	0.45 dB
Insertion Loss at BW	-	0.35 dB	0.50 dB
Rejection +/- 3MHz Fo	12 dB	28 dB	40 dB
Connectors	EIA 7/8	EIA 7/8	EIA 7/8
Frequency range	88 – 108	88 – 108	88 – 108
Model Designation	FBFM1BD	FBFM2BD	FBFM3BD
Number of cavities	1	2	3
Size of Cavities	12" x 12" Square	12" x 12" Square	12" x 12" Square
Maximum Power	5 KW	5 KW	5 KW
Insertion Loss at Fo	0.15 dB	0.25 dB	0.40 dB
Insertion Loss at BW	-	0.35 dB	0.45 dB
Rejection +/- 3MHz Fo	12 dB	28 dB	40 dB
Connectors	EIA 1 5/8	EIA 1 5/8	EIA 1 5/8
Frequency range	88 – 108	88 – 108	88 – 108
Model Designation	FBFM1BE	FBFM2BE	FBFM3BE
Number of cavities	1	2	3
Size of Cavities	12" x 12" Square	12" x 12" Square	12" x 12" Square
Maximum Power	10 KW	10 KW	10 KW
Insertion Loss at Fo	0.15 dB	0.25 dB	0.40 dB
Insertion Loss at BW	-	0.35 dB	0.45 dB
Rejection +/- 3MHz Fo	12 dB	28 dB	40 dB
Connectors	EIA 3 1/8	EIA 3 1/8	EIA 3 1/8
Frequency range	88 – 108	88 – 108	88 – 108
Model Designation	FBFM1CF	FBFM2CF	FBFM3CF
Number of cavities	1	2	3
Size of Cavities	20" x 20" Square	20" x 20" Square	20" x 20" Square
Maximum Power	50 KW	50 KW	50 KW
Insertion Loss at Fo	0.10 dB	0.15 dB	0.25 dB
Insertion Loss at BW	-	0.25 dB	0.30 dB
Rejection +/- 3MHz Fo	12 dB	28 dB	40 dB
Connectors	EIA 3 1/8	EIA 3 1/8	EIA 3 1/8

Notes:

- Filters can be ended by "unflanged lines" instead of connectors as indicated above.
- Filter of 4, 5 and 6 sections can be manufactured under request.
- Filters are installed on a Mounting Frame. Standard color is Raal 7032.

