

# FM Bandpass filter

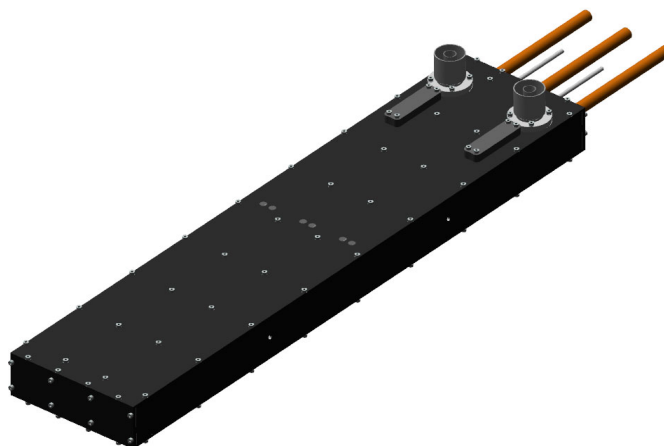
## 700 W, 3 Pole

BAND II



### PRODUCT FEATURES

- Flexible design
- Retunable 87 - 108 MHz
- Low insertion loss
- Temperature compensated
- 10-year comprehensive warranty

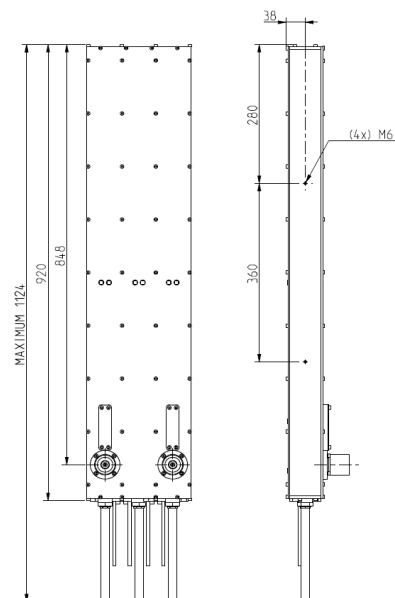


SPECIFICATIONS	60 mm Series	Option
FREQUENCY	87 - 108 MHz	-
STANDARD ORDER	3 poles	with temperature compensation
IMPEDANCE	50 Ohm	-
TEMPERATURE STABILITY	< 3 kHz / °C (without temp. comp.)	< 0,5 kHz / °C (with temp. comp.)
MAX PRODUCT TEMPERATURE	70 °C	-
ENVIROMENTAL CONDITION	0 to 70 °C IP40	-
CONNECTIONS	1 5/8" unflange	N female/ male 7/16 female/ male 7/8" unflange/ flange

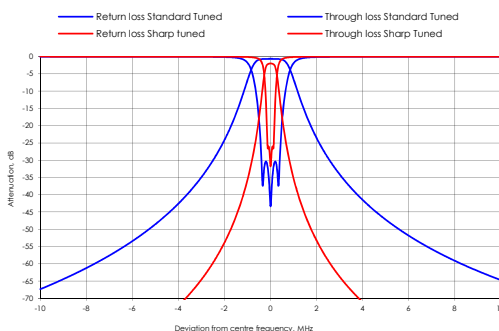
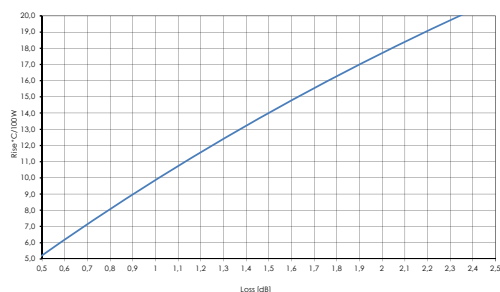
### DIMENSIONS AND WEIGHT

DIMENSIONS	1124 x 205 x 112 mm
L x W x H	(44.3 x 8.1 x 4.4 in)
WEIGHT	11 kg (24.2 lb)
STANDARD FRAME	Stand alone
COLOUR	Frosted black

CONNECTION	L
1 5/8"	124
7/8" FLANGE	133
7/8" UNFLANGE	122
7/16 FEMALE	112



Temperature rise Loss /Power



TYPICAL DATA*	Standard tuned	Sharp tuned
ARTICLE NO	BPF23C06x-0Pxx	BPF23C06x-0Pxx
RETURN LOSS (VSWR)	>30 dB (<1.07)	>25 dB (<1.10)
INSERTION LOSS		
Centre frequency	<0.70 dB	<2.05 dB
Effective passband @ ± 200 kHz	<0.70 dB	<2.05 dB
± 150 kHz	<0.70 dB	<2.45 dB
± 200 kHz	<0.70 dB	<3.05 dB
± 0.8 MHz	>3.0 dB	>28.0 dB
± 1.0 MHz	>6.0 dB	>33.0 dB
± 1.2 MHz	>10.0 dB	>38.0 dB
± 1.5 MHz	>15.0 dB	>43.0 dB
± 2.0 MHz	>22.0 dB	>50.0 dB
± 2.5 MHz	>28.0 dB	>57.0 dB
± 3.0 MHz	>32.0 dB	>60.0 dB
GROUP DELAY VARIATION		
(typical)		
± 150 kHz	<10 ns (5 ns)	<190 ns (185 ns)
± 200 kHz	<15 ns (10 ns)	<310 ns (305 ns)
MAX INPUT POWER RATING**	700 W rms	270 W rms
TEMPERATURE RISE	7 °C / 100 W	18.5 °C / 100 W

### Article structure:

ARTICLE: BPF23C06E-0P11

**BPF** = Filter Type  
**2** = Frequency band  
**2** = Number of poles  
**C** = Cavity based  
**06** = Cavity size  
**E** = Version  
 E = without temp. comp., F = with temp. comp.

**0** = Number of cross coupling  
**P** = Coating  
**1** = Input connection  
 C= N female, D= N male  
 A= 7/16 female, B= 7/16 male  
 7= 7/8" unflange, J= 7/8" flange  
 1= 1 5/8" unflange

**1** = Output connection  
 C= N female, D= N male  
 A= 7/16 female, B= 7/16 male  
 7= 7/8" unflange, J= 7/8" flange  
 1= 1 5/8" unflange

\* Data in table is typical data at 100 MHz. The filter can be tuned for other specification or bandwidth, please contact us for a designed specification.

\*\* All average power values and technical data refer to an ambient temperature of + 20 °C with normal air flow. The product can have a maximum surface temperature of + 70 °C. Maximum power capacity may be lower depending on channel allocation. Data are subjected to change without prior notice.