

# FM Bandpass filter

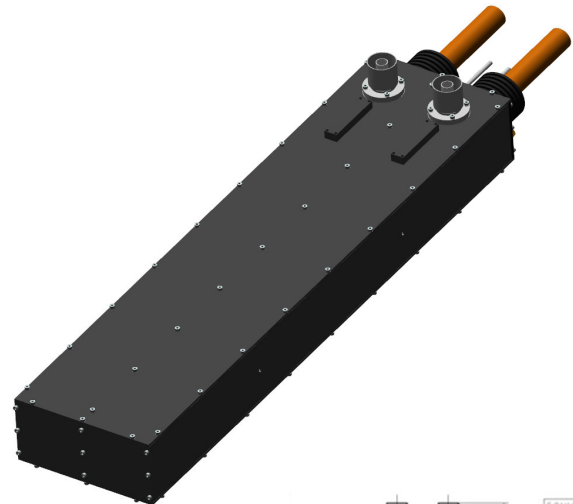
## 3.5 kW, 2 Pole

BAND II

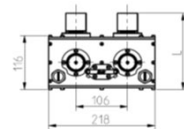
10 year GUARANTEE

### PRODUCT FEATURES

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



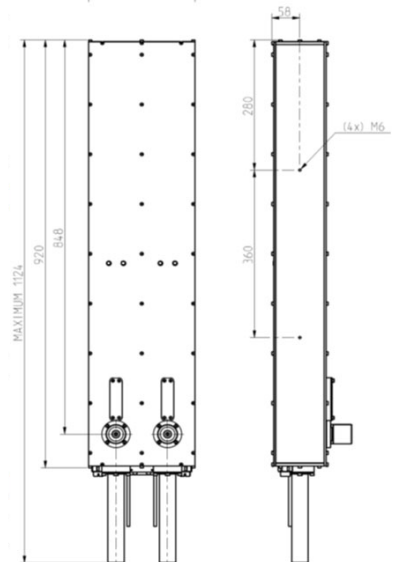
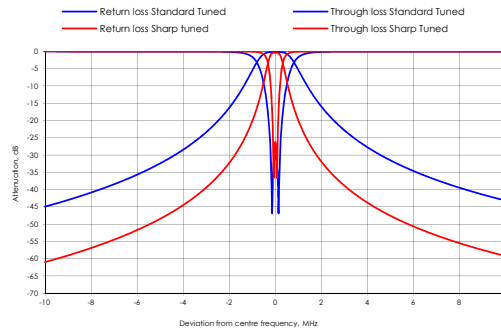
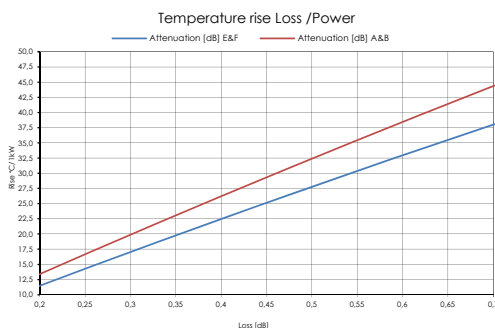
SPECIFICATIONS	110 mm Series	Option
FREQUENCY	87 - 108 MHz	-
STANDARD ORDER	2 poles with heat sink	with temperature compensation, without heat sink
IMPEDANCE	50 Ohm	-
TEMPERATURE STABILITY	< 3 kHz / °C (without temp. comp.)	< 0,5 kHz / °C (with temp. comp.)
MAX PRODUCT TEMPERATURE	70 °C	-
ENVIROMENTAL CONDITION	0 to 70 °C IP40	-
CONNECTIONS	1 5/8" unflange	N female/ male 7/16 female/ male 7/8" unflange/ flange



CONNECTION	L
1 5/8"	164
7/8" FLANGE	173
7/8" UNFLANGE	162
7/16 FEMALE	152

### DIMENSIONS AND WEIGHT

DIMENSIONS	1124 x 220 x 152 mm
L x W x H	(44.3 x 8.7 x 6.0 in)
WEIGHT	14 kg (30.9 lb)
STANDARD FRAME	Stand alone
COLOUR	Frosted black



TYPICAL DATA*	Standard tuned	Sharp tuned
ARTICLE NO	BPF22C11x-0Pxx	BPF22C11x-0Pxx
RETURN LOSS (VSWR)	>30 dB (<1.07)	>25 dB (<1.10)
INSERTION LOSS		
Centre frequency	<0.25 dB	<0.70 dB
Effective passband @ ± 200 kHz	<0.25 dB	<0.70 dB
± 150 kHz	<0.25 dB	<0.95 dB
± 200 kHz	<0.25 dB	<1.35 dB
± 0.8 MHz	>1.5 dB	>16.0 dB
± 1.0 MHz	>3.0 dB	>19.0 dB
± 1.2 MHz	>4.8 dB	>23.0 dB
± 1.5 MHz	>7.7 dB	>26.0 dB
± 2.0 MHz	>12.0 dB	>31.0 dB
± 2.5 MHz	>15.5 dB	>35.0 dB
± 3.0 MHz	>18.5 dB	>38.0 dB
GROUP DELAY VARIATION (typical)		
± 150 kHz	<6 ns (5 ns)	<105 ns (100 ns)
± 200 kHz	<10 ns (8 ns)	<135 ns (130 ns)
MAX INPUT POWER RATING**		
	3.5 kW rms (3 kW without heat sink)	1.3 kW rms (1 kW without heat sink)
TEMPERATURE RISE		
	14.5 °C / kW (16.5 °C / kW without heat sink)	38.5 °C / kW (50.0 °C / kW without heat sink)

### Article structure: BPF22C11A-0P11

- BPF** = Filter Type  
**2** = Frequency band  
**2** = Number of poles  
**C** = Cavity based  
**11** = Cavity size  
**A** = Version  
 A = without heat sink & without temp. comp.  
 B = without heat sink & with temp. comp.  
 E = with heat sink & without temp. comp.  
 F = with heat sink & 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.