

FM Bandpass filter

3 kW, 3 Pole

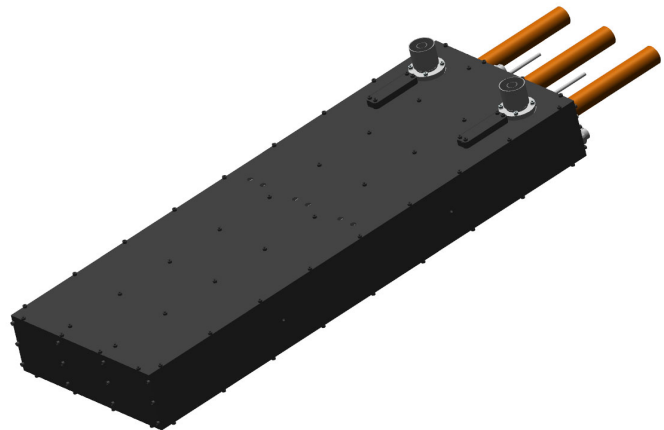
BAND II

10
year
GUARANTEE

PRODUCT FEATURES

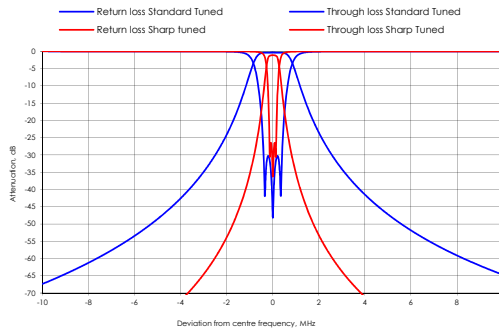
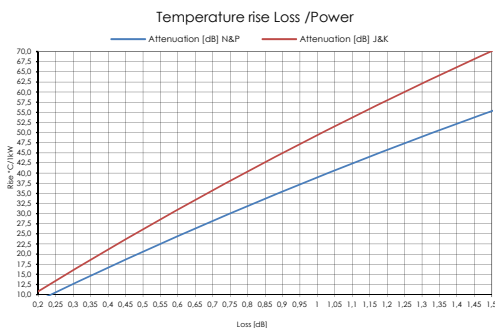
- Flexible design
- Retunable 87 - 108 MHz
- Low insertion loss
- Temperature compensated
- 10-year comprehensive warranty

SPECIFICATIONS	110 mm Series	Option
FREQUENCY	87 - 108 MHz	-
STANDARD ORDER	3 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

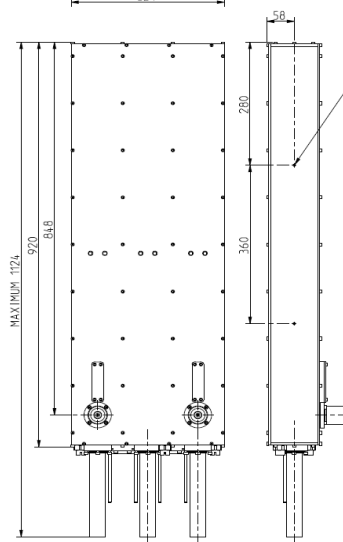


DIMENSIONS AND WEIGHT

DIMENSIONS	1124 x 324 x 152 mm
L x W x H	(44.3 x 12.7 x 6.0 in)
WEIGHT	18 kg (39.7 lb)
STANDARD FRAME	Stand alone
COLOUR	Frosted black



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



TYPICAL DATA*	Standard tuned	Sharp tuned
ARTICLE NO	BPF23C11x-0Pxx	BPF23C11x-0Pxx
RETURN LOSS (VSWR)	>30 dB (<1.07)	>25 dB (<1.10)
INSERTION LOSS		
Centre frequency	<0.40 dB	<1.20 dB
Effective passband @ ± 200 kHz	<0.40 dB	<1.20 dB
	± 150 kHz	<0.40 dB
	± 200 kHz	<0.40 dB
	± 0.8 MHz	>2.5 dB
	± 1.0 MHz	>6.0 dB
	± 1.2 MHz	>10.0 dB
	± 1.5 MHz	>15.0 dB
	± 2.0 MHz	>22.0 dB
	± 2.5 MHz	>28.0 dB
	± 3.0 MHz	>33.0 dB
GROUP DELAY VARIATION		
(typical)	± 150 kHz	<6 ns (5 ns)
	± 200 kHz	<10 ns (8 ns)
MAX INPUT POWER RATING**		
	3.0 kW rms (2.5 kW without heat sink)	1.0 kW rms (0,85 kW without heat sink)
TEMPERATURE RISE		
	16.5 °C / kW (20 °C / kW without heat sink)	50 °C / kW (58 °C / kW without heat sink)

Article structure:

ARTICLE: BPF23C11J-0P11

BPF= Filter Type

2 = Frequency band

3 = Number of poles

C = Cavity based

11 = Cavity size

J = Version

J = without heat sink & without temp. comp.

K = without heat sink & with temp. comp.

N = with heat sink & without temp. comp.

P = 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.