

UHF Bandpass filter

12 and 15 kW rms, 7 Cavities

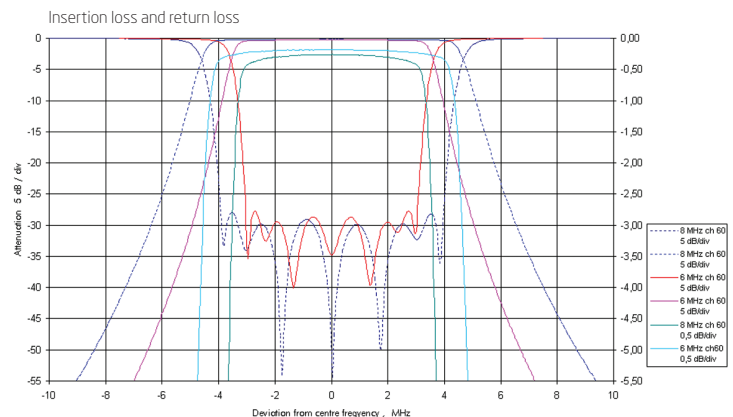
BAND IV-V

10 year GUARANTEE



PRODUCT FEATURES

- Design based on waveguide technology
- Flexible modular design
- 7 cavities for sharp filtering
- Low insertion loss
- Temperature compensated
- Adjustable bandwidth for 6, 7 or 8 MHz
- 10-year comprehensive warranty



PRODUCT PROFILE

These 7 cavities, single-mode, waveguide filters employ the low-loss, high-power characteristics of waveguide technology with coaxial input and output. An ideal reflective filter for analogue and digital transmitters, or as a component within a channel combiner, they provide high rejection and isolation in a sturdy, self-supporting, compact assembly. Available for 12 kW maximum input power or with black finish and cooling fins for handling up to 15 kW rms.

Data in table is typical according to a standard tuned 8 MHz channel bandwidth. The filter can be tuned for other specifications or bandwidths, please contact us for a specification designed for your requirements.

All average power values and technical data refer to an ambient temperature of +20-25 °C with normal air flow. The product will have a maximum surface temperature of +60 °C. Maximum power capacity may be lower depending on channel allocation.

ARTICLE	BPF4-7CWG-AA00	BPF4-7CWG-AB00
FREQUENCY	470 - 860 MHz	470 - 860 MHz
INPUT POWER (Varies according to channel)	12 kW rms	15 kW rms
IMPEDANCE	50 Ohm	50 Ohm
VSWR	<1.1 (<26 dB)	<1.1 (<26 dB)
INSERTION LOSS		
Centre frequency	<0.2 dB	<0.2 dB
±3.8 MHz	<0.3 dB	<0.3 dB
±4.2 MHz	>1 dB	>1 dB
±6.0 MHz	>28 dB	>28 dB
±12.0 MHz	>76 dB	>76 dB
STANDARD CONNECTION	RL98 unflange	RL98 unflange
OPTIONAL CONNECTION	3 1/8" unflange	3 1/8" unflange

DIMENSIONS AND WEIGHT		
LENGTH	1416 mm (55.7 in)	1416 mm (55.7 in)
DIAMETER	Ch 21; 500 mm (20 in)	Ch 21; 500 mm (20 in)
Varies according to channel	Ch 68; 285 mm (11 in)	Ch 68; 285 mm (11 in)
WEIGHT	Varies according to channel	Varies according to channel
OTHER		Black painted with cooling fins