

Band-Pass Filter for the 88 -108 MHz Band

DESCRIPTION

- The BPF 4/4-FM is a 4-helical resonator band-pass filter with aperture-coupling between the resonators.
- This filter can be used as a preselector to protect a receiver against interference from transmissions out of the pass-band, or it can be used to reduce spurious output from a transmitter with up to 50 W of output power.
- The BPF 4/4-FM version fits directly into our receiver multicouplers PRO-AR4G-N... etc.
- The filter can be tuned within the entire 88 - 108 MHz band. It has very small dimensions owing to the use of helical resonators. Careful design and choice of materials ensure reliable operation over a wide temperature range.
- The housing is made of extruded aluminium, the chassis of steel, and teflon insulation has been used in the coaxial cables and in the connectors.
- The filter is black vinyl coated to prevent corrosion.



SPECIFICATIONS

Electrical	
Model	BPF 4/4-FM
Filter Type	Band-pass filter
Frequency	88 - 108 MHz
Max. Input Power	50 W
Insertion Loss	≤ 1.4 dB (typ. 1.2 dB)
Impedance	50 Ω
Attenuation	See curve
VSWR	< 1.5:1
Bandwidth	3 - 4 MHz

Mechanical	
Connection(s)	N(f) or BNC (others on request)
Dimensions	Approx. 165 x 104 x 33 mm / 6.50 x 4.10 x 1.30 in.
Weight	Approx. 0.5 kg / 1.10 lb.
Mounting	ø5 mm (4 holes)

Environmental	
Operating temperature range	-30 °C to +60 °C

ORDERING

Model	Product No.
BPF 4/4-FM N(f)	200002648
BPF 4/4-FM BNC(f)	200001792

TYPICAL RESPONSE CURVES



