

Band-Pass Filter for the 80 MHz Band

DESCRIPTION

- The BPF 4/4 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-C-version fits directly into our receiver multicouplers PRO-AR4G-N... etc.
- The filter can be tuned within the entire 66 - 88 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 coated with black vinyl to prevent corrosion.



SPECIFICATIONS

| Electrical | |
|--------------------|------------------------|
| Model | BPF 4/4 |
| Filter Type | Band-Pass Filters |
| Frequency | 66 - 88 MHz |
| Max. Input Power | 50 W |
| Insertion Loss | ≤ 1.4 dB (typ. 1.2 dB) |
| Impedance | 50 Ω |
| Reject Attenuation | See curves |
| VSWR | < 1.5:1 |
| Bandwidth | 3 - 4 MHz |

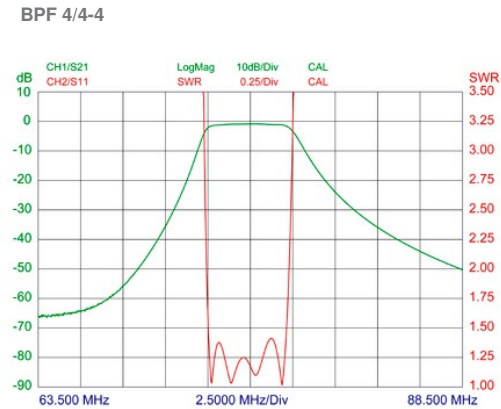
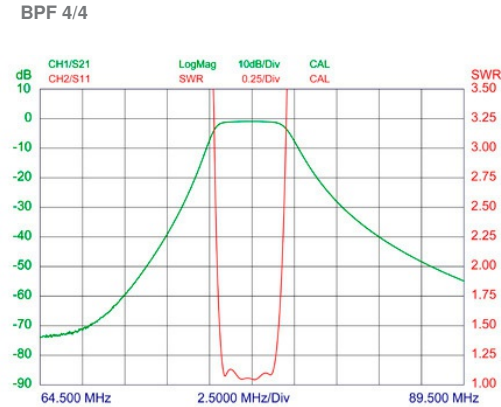
| Mechanical | |
|---------------|--|
| Connection(s) | N Female or BNC female (others on request) |
| Dimensions | Approx. 165 x 104 x 33 mm / 6.50 x 4.10 x 1.30 in. |
| Weight | Approx. 0.5 kg / 1.10 lb |

| Environmental | |
|-----------------------------|----------------|
| Operating Temperature Range | -30°C to +60°C |

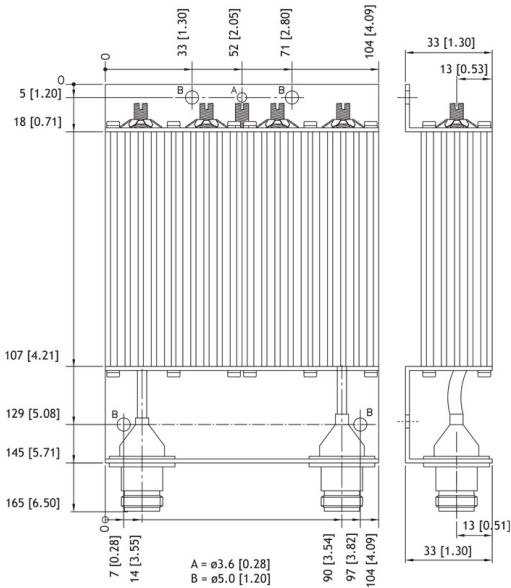
ORDERING

| Model | Product No. |
|------------------|-------------|
| BPF 4/4-N(f) | 200000887 |
| BPF 4/4-BNC(f) | 200000883 |
| BPF 4/4-4-N(f) | 200002757 |
| BPF 4/4-4-BNC(f) | 200001827 |

TYPICAL RESPONSE CURVES



MOUNTING DETAILS



All dimensions are given in mm [in.]