

Band-Pass Filter for the 160 MHz Band

DESCRIPTION

- The BPF 2/4-... 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 from interference from transmitters outside the band-pass limits.
- The BPF 2/4-C (C = cable) can be installed directly into the PRO-AR4G-N, PRO-AR8G-N and PRO-AR16G-N receiver multicouplers as a preselector.
- When installed in the output of a transmitter, the BPF 2/4 reduces spurious signals.
- The BPF 2/4-... is adjustable over the range 144 175 MHz.
- > Very compact due to use of helical resonators.
- Careful choice of materials ensures reliable performance over a wide temperature range
- Extruded aluminium sections, steel racks and coaxial cables and connectors with teflon insulation ensure good mechanical strength.
- > The filter is coated with black vinyl to prevent corrosion.



ORDERING

| Туре | Product No. | Description | Frequency |
|----------------|-------------|-------------|-----------|
| BPF 2/4-2-N(f) | 200000845 | N(f) | 2 MHz |
| BPF 2/4-4-N(f) | 200000816 | N(f) | 4 MHz |
| BPF 2/4-6-N(f) | 200002090 | N(f) | 6 MHz |



SPECIFICATIONS

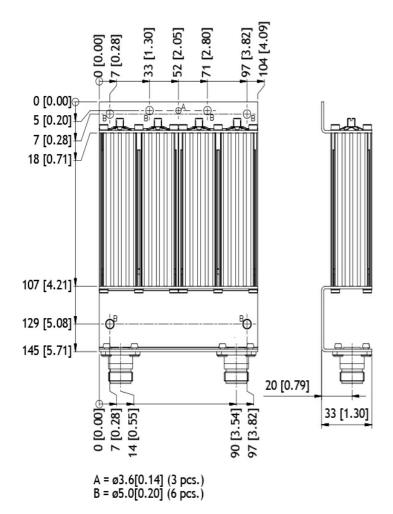
| Electrical | | |
|--------------------|-----------------------------------|--|
| Model | BPF 2/4 | |
| Filter Type | Band-pass filter | |
| Frequency | 144 - 175 MHz | |
| Max. Input Power | 35 W | |
| Insertion Loss | ≤ 1.5 dB (typ. 1.2 dB) | |
| Impedance | 50 Ω | |
| Reject Attenuation | See curves | |
| VSWR | < 1.5:1 | |
| Bandwidth | Can be ordered with 2, 4 or 6 MHz | |

| Mechanical | | |
|---------------|---|--|
| Connection(s) | N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request) | |
| Dimensions | 165 x 104 x 33 mm / 6.5 x 4.1 x 1.3 in. | |
| Weight | Approx 0.5 kg / 1.10 lb. | |

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

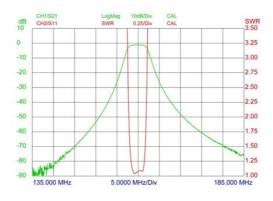


MOUNTING DETAILS

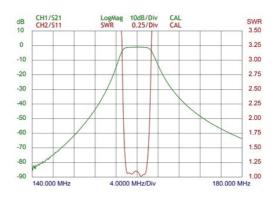


TYPICAL RESPONSE CURVES

2 MHZ



4 MHZ



6 MHZ

