

Band-Pass Filter for the 450 MHz Band

DESCRIPTION

- The BPF 70/4-HX 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.
- When installed in the output of a transmitter, the BPF 70/4-HX reduces spurious signals.
- The BPF 70/4-HX is adjustable over the range 406 - 470 MHz.
- Very compact due to use of helical resonators.
- The careful choice of materials, ensures the filter will function reliably over a wide temperature range.
- Extruded aluminium sections, steel racks and coax cables and connectors with teflon insulation ensure good mechanical strength.
- The filter is black vinyl coated to prevent corrosion.



SPECIFICATIONS

| Electrical | |
|-----------------------------|--|
| Model | BPF 70/4-HX |
| Filter Type | Band-pass filter |
| Frequency | BPF 70/4-HX/l: 406 - 440 MHz BPF 70/4-HX/h: 440 - 470 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 | Min. 3 MHz |
| Mechanical | |
| Connection(s) | N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request) |
| Dimensions | 110.6 x 104 x 33 mm / 4.35 x 4.09 x 1.30 in. |
| Weight | Approx. 0.43 kg / 0.95 lb. |
| Environmental | |
| Operating temperature range | -30 °C to +60 °C |

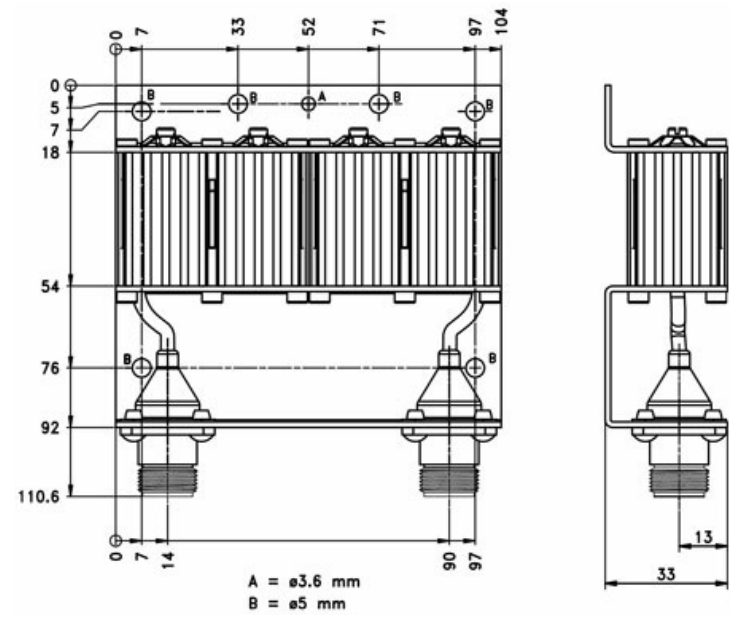
ORDERING

| Model | Product No. |
|--------------------|-------------|
| BPF 70/4-HX/l N(f) | 200000975 |
| BPF 70/4-HX/h N(f) | 200001130 |

TYPICAL RESPONSE CURVE



MOUNTING DETAILS



All dimensions are given in mm.