

Band-Pass/Band-Reject Filters for the 450 MHz Band

DESCRIPTION

- High power base station band-pass/band-reject filters for the 380 – 470 MHz range.
- The use of large $\varnothing 125$ mm cavities means a high Q, resulting in a very narrow pass/reject spacing.
- The large dimensions also mean a high power rating.
- Unloaded Q of a single cavity is approx. 4500.
- High frequency stability on temperature and power.
- Mounted on 19" brackets. **



SPECIFICATIONS

| Electrical | | | |
|-----------------------------|--|--|---|
| Model | BPBR 70/1-125 | BPBR 70/2-125 | BPBR 70/3-125 |
| Frequency | 380 - 470 MHz | | |
| Max. Input Power | 300 W @ 0.5 dB IL 125 W @ 2.0 dB IL | 300 W @ 1.0 dB IL 125 W @ 4.0 dB IL | 300 W @ 1.5 dB IL 125 W @ 6.0 dB IL |
| Insertion Loss | Adjustable 0.3 - 2.0 dB | Adjustable 0.6 - 4.0 dB | Adjustable 0.9 - 6.0 dB |
| Impedance | 50 Ω | | |
| Attenuation | See figure 1 | See figure 2 | See figure 3 |
| VSWR | < 1.5:1 | | |
| Mechanical | | | |
| Connection(s) | N(f) | | |
| Dimensions | $\varnothing 125$ x 300 / $\varnothing 4.92$ x 11.81 in. | L:125 x W:250 x H:300 mm / L:4.92 x W:9.84 x H:11.81 in. | L:125 x W:375 x H:300 mm / L:4.92 x W:14.76 x H:11.81 in. |
| Weight | Approx. 1.2 kg / 2.65 lb. | Approx. 2.7 kg / 5.95 lb. | Approx. 4.3 kg / 9.48 lb. |
| Environmental | | | |
| Operating Temperature Range | 30 to 60 °C | | |
| Frequency Stability | 1.5 ppm/° C (approx.) | | |

ORDERING

| Model | Product No. |
|---------------|-------------|
| BPBR 70/1-125 | 200000966 |
| BPBR 70/2-125 | 200001409 |
| BPBR 70/3-125 | 200001569 |

TYPICAL RESPONSE CURVES

FIGURE 1

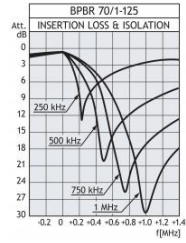


FIGURE 2

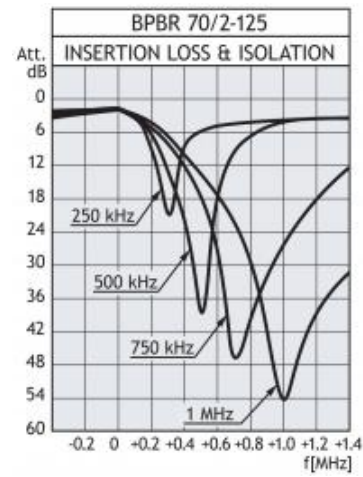


FIGURE 3