

CAVITIES

BRF 4/...-250

Band-Reject Filters for the 80 MHz Band



DESCRIPTION:

- ★ High power base station band-reject filters for the 66–88 MHz range.
- ★ The use of large $\varnothing 250$ mm cavities means a high Q, resulting in a very narrow notch bandwidth.
- ★ The large dimensions also mean a high power rating.
- ★ Unloaded Q of a single cavity is approx. 8000.
- ★ High frequency stability on temperature and power.
- ★ 19" mounting brackets are available as an option (see sec. 9 – Accessories).



BRF 4/1-250



BRF 4/2-250



BRF 4/3-250

SPECIFICATIONS:

| ELECTRICAL | | | |
|----------------------|--|--|--|
| | BRF 4/1-250 | BRF 4/2-250 | BRF 4/3-250 |
| FREQUENCY RANGE | 66–88 MHz | 66–88 MHz | 66–88 MHz |
| MAX. INPUT POWER | 350 W @ 0.5 dB IL 200 W @ 1.0 dB IL | 350 W @ 1.0 dB IL 200 W @ 2.0 dB IL | 350 W @ 1.5 dB IL 200 W @ 3.0 dB IL |
| ATTENUATION | See figure 1 | See figure 2 | See figure 3 |
| 1 dB NOTCH BANDWIDTH | 1 ‰ of f_c | 1 ‰ of f_c | 1 ‰ of f_c |
| IMPEDANCE | Nom. 50 Ω | Nom. 50 Ω | Nom. 50 Ω |
| SWR (at resonance) | ≤ 1.5 | ≤ 1.5 | ≤ 1.5 |
| MECHANICAL | | | |
| TEMP. RANGE | -30° C i +60° C RH 0-90% non-condensing | -30° C i +60° C RH 0-90% non-condensing | -30° C i +60° C RH 0-90% non-condensing |
| FREQ. STABILITY | Approx. 1.5 ppm/° C | Approx. 1.5 ppm/° C | Approx. 1.5 ppm/° C |
| CONNECTORS | N-female | N-female | N-female |
| DIMENSIONS | $\varnothing 250 \times 1200$ mm | L: 250 x W: 500 x H: 1200 mm | L: 250 x W: 600 x H: 750 mm |
| WEIGHT | Approx. 8.6 kg | Approx. 17.5 kg | Approx. 26.6 kg |

PROCOM A/S reserve the right to amend specifications without prior notice.