

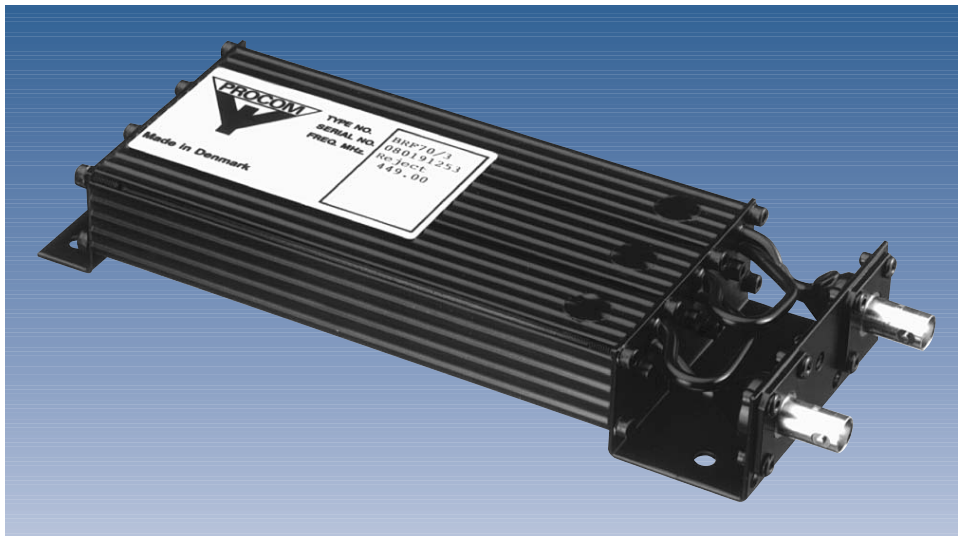
BRF 70/3

Band Reject (Notch-) Filter for the 450 MHz Band



DESCRIPTION:

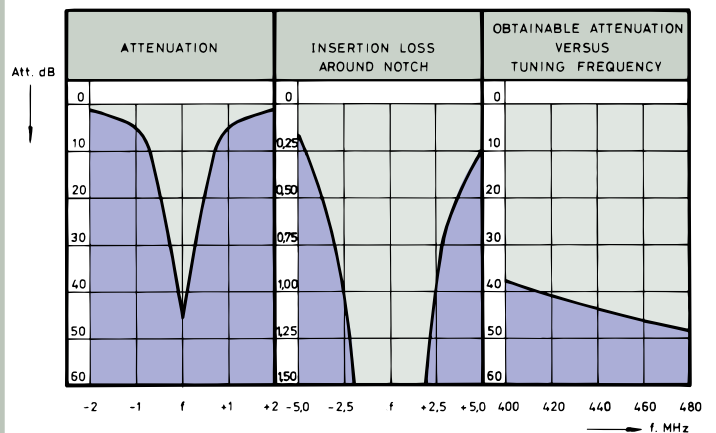
- ★ The BRF 70/3 is a 3-resonator notch-filter using full-length $1/4 \lambda$ cavities.
- ★ This filter rejects a narrow band of frequencies and passes all others. The filter can be applied both in connection with transmitters and receivers to attenuate interfering signals which cause cross modulation effects. The filter can be employed as a single component or it can act as an integrated part of a complete multi-coupling system.
- ★ The BRF 70/3 can be tuned within the complete 400-470 MHz band. Careful design and choice of materials ensure reliable operation over a wide temperature range.
- ★ The housing is made of extruded aluminium, the chassis of brass, and teflon insulation has been applied in the coaxial cables and in the connectors.
- ★ The filter is black vinyl coated to prevent corrosion.



SPECIFICATIONS:

| ELECTRICAL | |
|---|---|
| MODEL | BRF 70/3 |
| FILTER TYPE | Band-reject (notch) filter |
| TUNING RANGE | 400-470 MHz |
| MAX. INPUT POWER | 50 watts |
| INSERTION LOSS (out of reject area, 0-1000 MHz) | < 0.5 dB |
| REJECT ATTENUATION (Notch depth) | > 38 dB (See curve) |
| 1 dB NOTCH BAND WIDTH | At 400 MHz: $< \pm 2.2$ MHz At 435 MHz: $< \pm 2.5$ MHz At 470 MHz: $< \pm 3.0$ MHz |
| IMPEDANCE | Nom. 50 Ω |
| SWR | 0-650 MHz : < 1.4 650-1000 MHz : < 2.0 |
| MECHANICAL | |
| TEMP. RANGE | -30° C → +60° C |
| CONNECTORS | BNC-female (Others on request) |
| DIMENSIONS (L x W x H) | 230 x 77 x 33 mm |
| WEIGHT | Approx. 550 g |

TYPICAL RESPONSE CURVES:



PLEASE NOTE:

The notch filter resonators can also be separately tuned to three different frequencies in a "multiple notch" configuration, but the attenuation on each frequency is then only approximately one third of the normal attenuation when all notches work together.

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