

CAVITIES

BRF 2/...-125

Band-Reject Filters for the 150 MHz Band



DESCRIPTION:

- ★ High power base station band-reject filters for the 140–175 MHz range.
- ★ The use of large $\varnothing 125$ 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. 4500.
- ★ High frequency stability on temperature and power.
- ★ Mounted on 19" brackets. **



BRF 2/1-125



BRF 2/2-125 **



BRF 2/3-125 **

SPECIFICATIONS:

ELECTRICAL			
MODEL	BRF 2/1-125	BRF 2/2-125	BRF 2/3-125
FREQUENCY RANGE	140–175 MHz	140–175 MHz	140–175 MHz
MAX. INPUT POWER	300 W @ 0.5 dB IL 175 W @ 1.0 dB IL	300 W @ 1.0 dB IL 175 W @ 2.0 dB IL	300 W @ 1.5 dB IL 175 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 → +60° C RH 0-90% non-condensing	-30° C → +60° C RH 0-90% non-condensing	-30° C → +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	$\varnothing 125$ x 600 mm	D: 125 x W: 285 x H: 600 mm	D: 125 x W: 425 x H: 600 mm
WEIGHT	Approx. 1.9 kg	Approx. 4 kg	Approx. 6.5 kg

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

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TYPICAL RESPONSE CURVES:

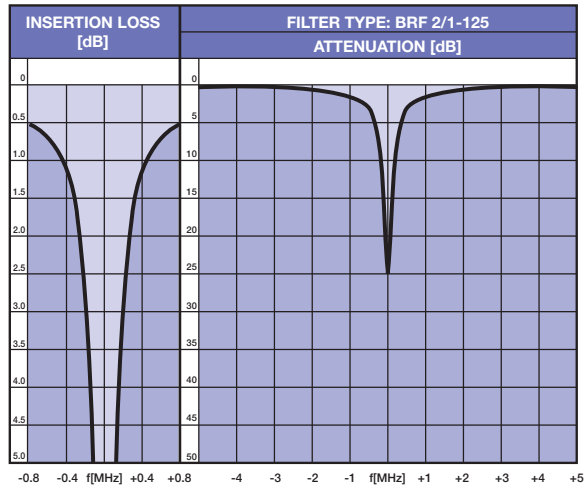


Figure 1

TYPICAL RESPONSE CURVES:

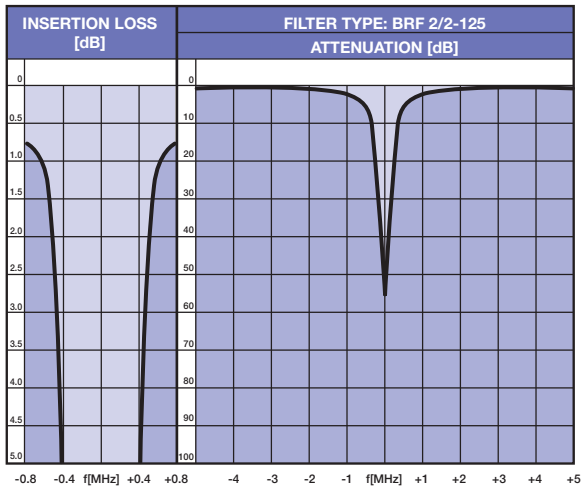


Figure 2

TYPICAL RESPONSE CURVES:

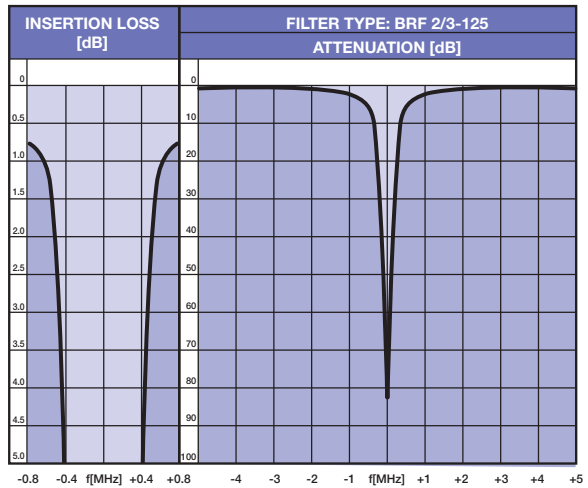


Figure 3