

# CAVITIES

## BPF 70/...-125

*Band-Pass Filters for the 450 MHz Band*



### DESCRIPTION:

- ★ High power base station band-pass filters for the 400-470 MHz range.
- ★ The use of large  $\varnothing 125$  mm cavities means a high Q, resulting in a very narrow passband.
- ★ 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.
- ★ 19" mounting brackets are available as an option (see sec. 9 – Accessories).



BPF 70/1-125



BPF 70/2-125



BPF 70/3-125

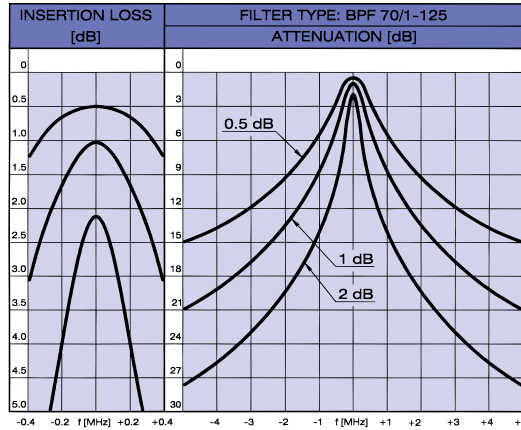
PROCOM A/S reserve the right to amend specifications without prior notice.

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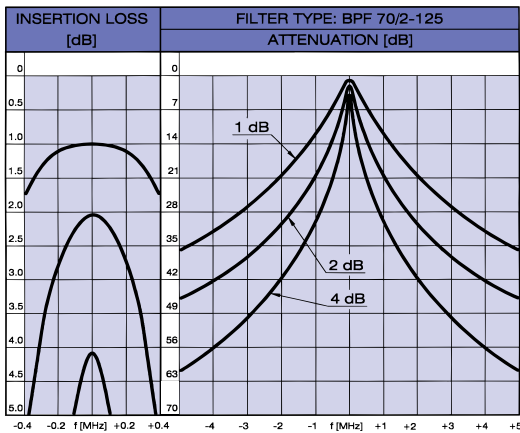
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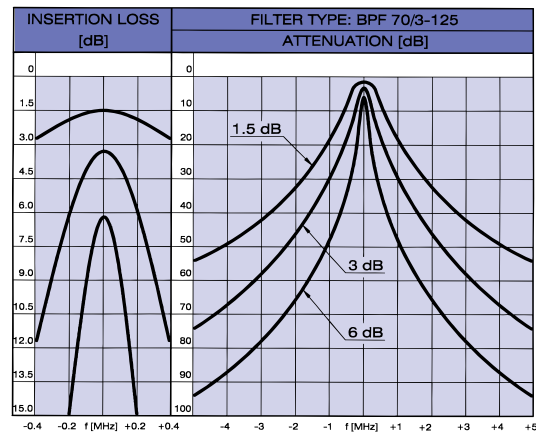
TYPICAL RESPONSE CURVES:



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### SPECIFICATIONS:

ELECTRICAL			
	BPF 70/1-125	BPF 70/2-125	BPF 70/3-125
FREQUENCY RANGE	400–470 MHz	400–470 MHz	400–470 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 0.4–2.0 dB	Adjustable 0.8–4.0 dB	Adjustable 1.2–6.0 dB
ATTENUATION	See figure 1	See figure 2	See figure 3
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	ø125 x 300 mm	L: 125 x W: 250 x H: 300 mm	L: 125 x W: 375 x H: 300 mm
WEIGHT	Approx. 1.2 kg	Approx. 2.7 kg	Approx. 4.3 kg