

CAVITIES

BPF 2/...-125

Band-Pass Filters for the 150 MHz Band



DESCRIPTION:

- ★ High power base station band-pass filters for the 140-175 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.
- ★ Mounted on 19" brackets . **



BPF 2/1-125



BPF 2/2-125 **



BPF 2/3-125 **

SPECIFICATIONS:

ELECTRICAL			
MODEL	BPF 2/1-125	BPF 2/2-125	BPF 2/3-125
FREQUENCY RANGE	140-175 MHz	140-175 MHz	140-175 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 \rightarrow +60° C RH 0-90% non-condensing	-30° C \rightarrow +60° C RH 0-90% non-condensing	-30° C \rightarrow +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:

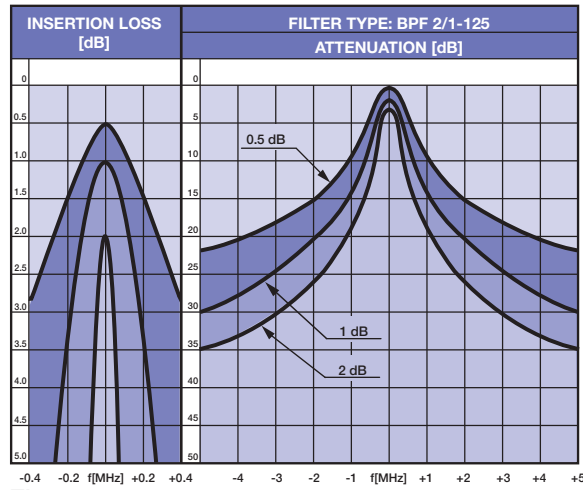


Figure 1

TYPICAL RESPONSE CURVES:

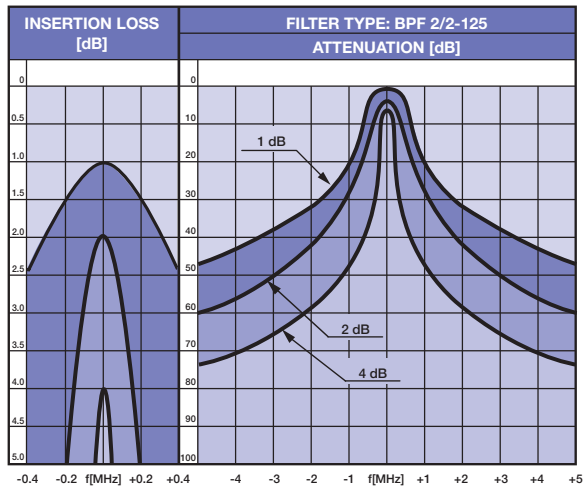


Figure 2

TYPICAL RESPONSE CURVES:

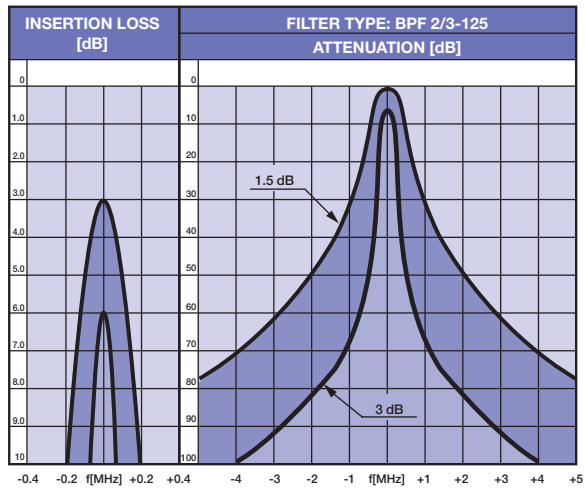


Figure 3