

BPF 70/...-250

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 $\varnothing 250$ 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. 8000.
- High frequency stability on temperature and power.
- 19" mounting brackets are included for BPF 70/2-250 and BPF 70/3-250 models.



BPF 70/1-250

BPF 70/2-250

BPF 70/3-250

ORDERING DESIGNATIONS

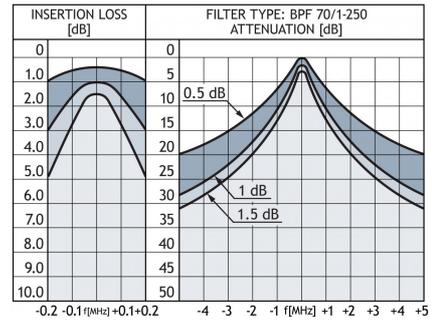
TYPE	PRODUCT NO.
BPF 70/1-250	200000955
BPF 70/2-250	200000963
BPF 70/3-250	200000957

SPECIFICATIONS

ELECTRICAL			
MODEL	BPF 70/1-250	BPF 70/2-250	BPF 70/3-250
FREQ. RANGE	380 - 470 MHz	380 - 470 MHz	380 - 470 MHz
MAX. INPUT POWER	350 W @ 0.5 dB IL 150 W @ 2.0 dB IL	350 W @ 1.0 dB IL 150 W @ 4.0 dB IL	350 W @ 1.5 dB IL 150 W @ 6.0 dB IL
INSERTION LOSS	Adjustable 0.5 - 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	-30° C \rightarrow +60° C	-30° C \rightarrow +60° C
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	$\varnothing 250$ x 400 mm	L:250 x W:500 x H:400 mm	L:250 x W:750 x H:400 mm
WEIGHT	Approx. 2.8 kg	Approx. 5.2 kg	Approx. 9.6 kg

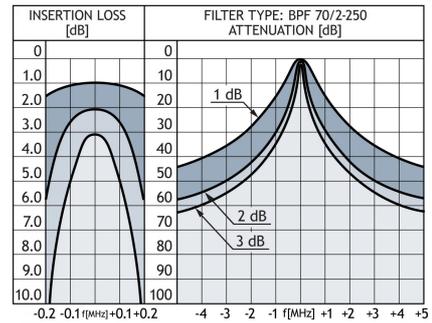
TYPICAL RESPONSE CURVES

Figure 1



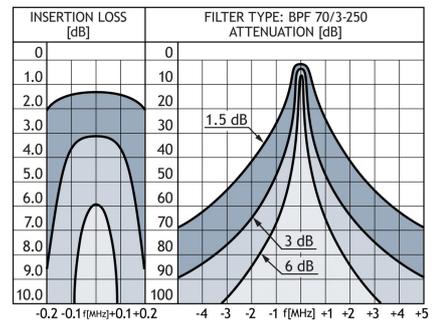
TYPICAL RESPONSE CURVES

Figure 2



TYPICAL RESPONSE CURVES

Figure 3



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

21/03/12