Band-Pass Filters for the 450 MHz Band

DESCRIPTION

- High power base station band-pass filters for the 380 - 470 MHz range.
- The use of large ø125 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.

SPECIFICATIONS

Electrical			
Model	BPF 70/1-125	BPF 70/2-125	BPF 70/3-125
Frequency	380 - 470 MHz	380 - 470 MHz	380 - 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
Impedance	50 Ω	50 Ω	50 Ω
Attenuation	See diagram 1	See diagram 2	See diagram 3
VSWR	< 1.5:1	< 1.5:1	< 1.5:1

Mechanical			
Connection(s)	N(f)	N(f)	N(f)
Dimensions	ø125 x 300 mm /ø4.92 x 11.81 in.	L: 125 x W: 250 x H: 300 mm / L: 4.92 x 9.84 x H: 11.81 in.	L: 125 x W: 375 x H: 300 mm / L: 4.92 x 14.76 x H: 11.81 in.
Weight	Approx. 1.2 kg / 2.65 lb	Approx. 2.7 kg / 5.95 lb	Approx. 4.3 kg / 9.48 lb

Environmental			
Operating temperature range	-30 °C to +60 °C	-30 °C to +60 °C	-30 °C to +60 °C
Frequency Stability	1.5 ppm/° C (approx.)	1.5 ppm/° C (approx.)	1.5 ppm/° C (approx.)

ORDERING

Model	Product No.
BPF 70/1-125	200000962
BPF 70/2-125	200001049
BPF 70/3-125	200001050

TYPICAL RESPONSE CURVES

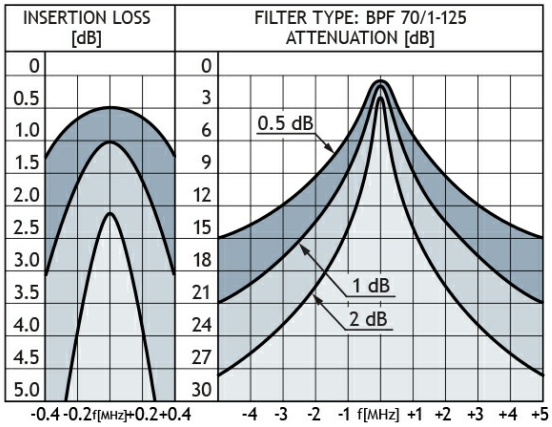

Diagram 1

TYPICAL RESPONSE CURVES

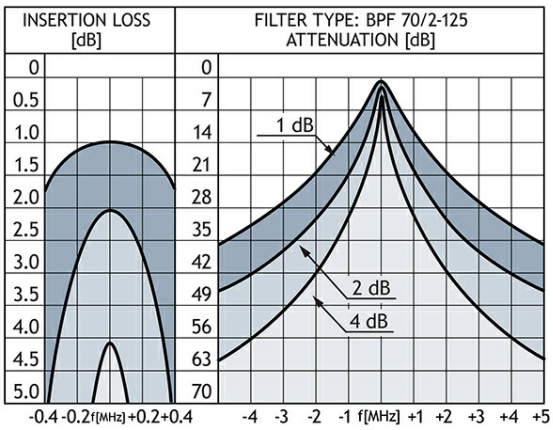

Diagram 2

TYPICAL RESPONSE CURVES

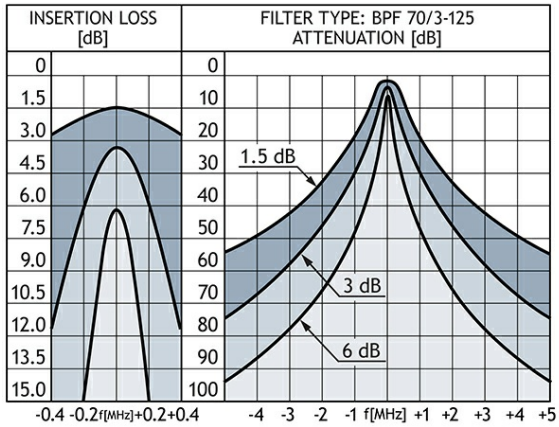

Diagram 3