

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.**



SPECIFICATIONS

Electrical			
Model	BPF 2/1-125	BPF 2/2-125	BPF 2/3-125
Frequency	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
Impedance	50 Ω		
Attenuation	See diagram		
VSWR	< 1.5:1		
Mechanical			
Connection(s)	N(f)		
Max. RPM	200 (on tuning rod)		
Dimensions	ø125 x 600 mm	L:125 x W:285 x H:600 mm	L:125 x W:425 x H:600 mm
Weight	1.9 kg / 4.19 lb	4 kg / 8.82 lb	6.5 kg / 14.33 lb
Environmental			
Operating Temperature Range	30 to 60 °C		
Frequency Stability	1.5 ppm/° C (approx.)		

ORDERING

Model	Product No.
BPF 2/1-125	200000956
BPF 2/2-125	200000986
BPF 2/3-125	200000961

TYPICAL RESPONSE CURVES

Figure 1

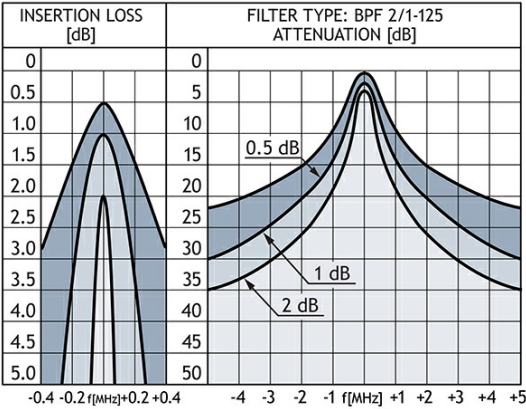


Figure 2

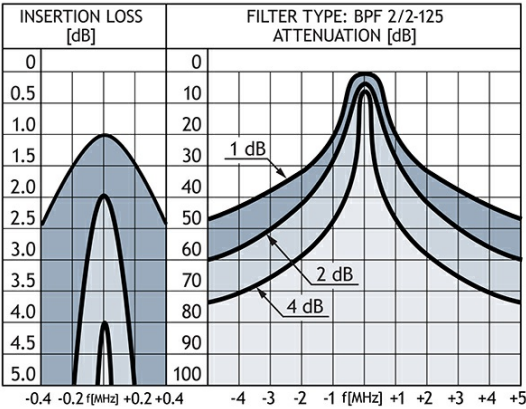


Figure 3

