

## Band-Reject Filters for the 450 MHz Band

### DESCRIPTION

- High power base station band-reject filters for the 380 – 470 MHz range.
- The use of large  $\varnothing 125$  mm cavities means a high Q, resulting in a very narrow notch bandwidth.
- 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.



BRF 70/1-125

BRF 70/2-125

BRF 70/3-125

### SPECIFICATIONS

Electrical			
Model	BRF 70/1-125	BRF 70/2-125	BRF 70/3-125
Frequency	380 - 470 MHz		
Max. Input Power	300 W @ 0.5 dB IL 175 W @ 1.0 dB IL	300 W @ 1.0 dB IL 175 W @ 2.0 dB IL	300 W @ 1.5 dB IL 175 W @ 3.0 dB IL
1 dB Notch Bandwidth	1 % of fc		
Impedance	50 Ω		
Attenuation	See diagram		
VSWR	< 1.5:1		
Mechanical			
Connection(s)	N(f)		
Dimensions	ø125 x 303 mm / ø4.92 x 11.92 in.	L:125 x W:250 x H:303 mm / L:4.92 x W:9.84 x H:11.92 in.	L:125 x W:375 x H:303 mm / L:4.92 x W:14.76 x H:11.92 in.
Weight	Approx. 1.2 kg / 2.65 lb.	Approx. 3 kg / 6.61 lb.	Approx. 4.2 kg / 9.26 lb.
Environmental			
Operating Temperature Range	30 to 60 °C		
Frequency Stability	1.5 ppm/° C (approx.)		

### ORDERING

Model	Product No.
BRF 70/1-125	200001240
BRF 70/2-125	200001941
BRF 70/3-125	200001942

TYPICAL RESPONSE CURVES

Figure 1

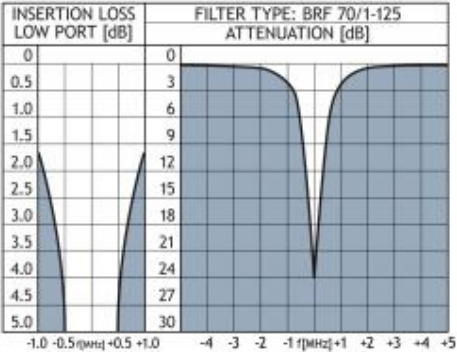


Figure 2

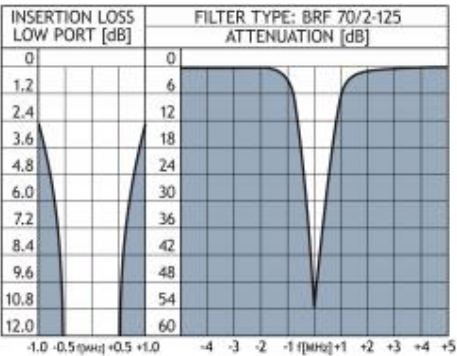


Figure 3

