Band-Pass/Band-Reject Filters for the 450 MHz Band

DESCRIPTION

- High power base station band-pass/band-reject filters for the 380 – 470 MHz range.
- The use of large ø200 mm cavities means a high Q, resulting in a very narrow pass/reject spacing.
- The large dimensions also mean a high power rating.
- Unloaded Q of a single cavity is approx. 7000.
- High frequency stability on temperature and power.
- 19” mounting brackets are available as an option.

SPECIFICATIONS

Electrical			
Model	BPBR 70/1-200	BPBR 70/2-200	BPBR 70/3-200
Frequency	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 0.3 - 2.0 dB	Adjustable 0.6 - 4.0 dB	Adjustable 0.9 - 6.0 dB
Impedance	50 Ω		
Attenuation	See figure 1	See figure 2	See figure 3
VSWR	< 1.5:1		

Mechanical			
Connection(s)	N(f)		
Dimensions	ø200 x 303 mm / ø7.87 x 11.811 in.	L:200 x W:400 x H:303 mm / L:7.87 x W:15.74 x H:11.811 in.	L:200 x W:600 x H:303 mm / L:7.87 x W:23.62 x H:11.811 in.
Weight	Approx. 2.3 kg / 5.07 lb.	Approx. 4.9 kg / 10.80 lb.	Approx. 7.5 kg / 16.53 lb.

Environmental	
Operating Temperature Range	30 to 60 °C
Frequency Stability	1.5 ppm/° C (approx.)

ORDERING

Model	Product No.
BPBR 70/1-200	200001151
BPBR 70/2-200	200001399
BPBR 70/3-200	200001401

TYPICAL RESPONSE CURVES

FIGURE 1

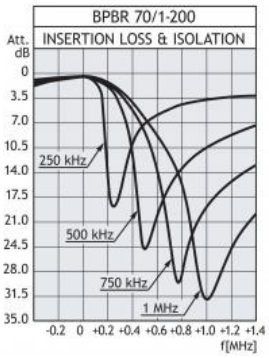

FIGURE 2

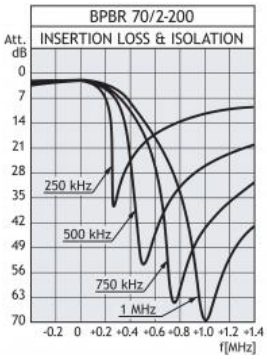

FIGURE 3