Band-Pass/Band-Reject Filters for the 80 MHz Band

DESCRIPTION

- High power base station band-pass/band-reject filters for the 66 – 88 MHz range.
- The use of large ø250 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. 8000.
- High frequency stability on temperature and power.
- 19" mounting brackets are available as an option.

SPECIFICATIONS

Electrical			
Model	BPBR 4/1-250	BPBR 4/2-250	BPBR 4/3-250
Frequency	66 - 88 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 0.3 - 2.0 dB	Adjustable 0.6 - 4.0 dB	Adjustable 0.3 - 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	ø250 x 1200 mm / ø9.84 x 47.24 in.	L:250 x W:500 x H:1200 mm / L:9.84 x W:19.68 x H:47.24 in.	L:250 x W:750 x H:1200 mm / L:9.84 x W:29.52 x H:47.24 in.
Weight	Approx. 8.6 kg / 18.96 lb.	Approx. 17.5 kg / 38.58 lb.	Approx. 26.6 kg / 58.64 lb.

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

ORDERING

Model	Product No.
BPBR 4/1-250	200001897
BPBR 4/2-250	200001898
BPBR 4/3-250	200001899

TYPICAL RESPONSE CURVES

FIGURE 1

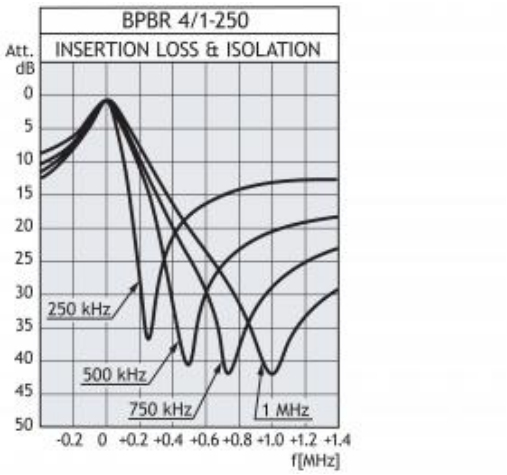

FIGURE 2

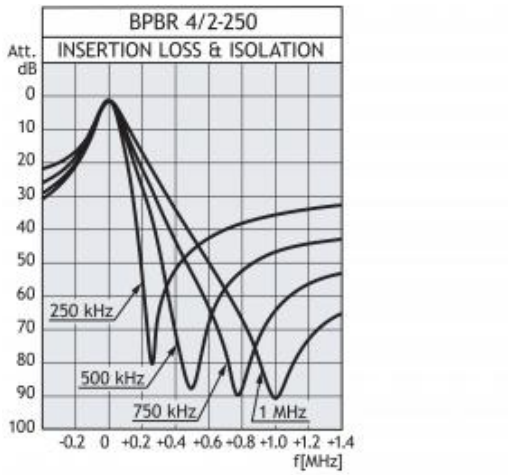

FIGURE 3