

Band-Pass/Band-Reject Filters for the 150 MHz Band

DESCRIPTION

- High power base station band-pass/band-reject filters for the 140 – 175 MHz range.
- The use of large $\varnothing 125$ 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. 4500.
- High frequency stability on temperature and power.
- Mounted on 19" brackets.**



BPBR 2/1-125



BPBR 2/2-125**



BPBR 2/3-125**

SPECIFICATIONS

Electrical			
Model	BPBR 2/1-125	BPBR 2/2-125	BPBR 2/3-125
Frequency	140 - 175 MHz	140 - 175 MHz	140 - 175 MHz
Max. Input Power	250 W	250 W	250 W
Insertion Loss	See figure 1 (0.7 dB @ 500 kHz)	See figure 2 (1.4 dB @ 500 kHz)	See figure 3 (2.1 dB @ 500 kHz)
Impedance	Nom. 50 Ω	Nom. 50 Ω	Nom. 50 Ω
Attenuation	See figure 1	See figure 2	See figure 3
VSWR	< 1.5	< 1.5	< 1.5
Mechanical			
Connection(s)	N(f)	N(f)	N(f)
Dimensions	$\varnothing 125$ x 600 mm / $\varnothing 4.92$ x 23.62 in.	$\varnothing 125$ x 285 x 600 mm / $\varnothing 4.92$ x 11.22 x 23.62 in.	$\varnothing 125$ x 425 x 600 mm / $\varnothing 4.92$ x 16.73 x 23.62 in.
Weight	Approx. 1.9 kg / 4.18 lb.	Approx. 4 kg / 8.8 lb.	Approx. 6.5kg / 14.33 lb.
Environmental			
Operating Temperature Range	30 to 60 °C	30 to 60 °C	30 to 60 °C
Frequency Stability	Approx. 1.5 ppm/° C	Approx. 1.5 ppm/° C	Approx. 1.5 ppm/° C

ORDERING

Model	Product No.
BPBR 2/1-125	200001081
BPBR 2/2-125	200000959
BPBR 2/3-125	200001909

MOUNTING NOTE

Other cavity mounting options available:
[//amphenolprocom.com/images/PDF/Cavity_Mounting_Options.pdf](http://amphenolprocom.com/images/PDF/Cavity_Mounting_Options.pdf)

TYPICAL RESPONSE CURVES

FIGURE 1

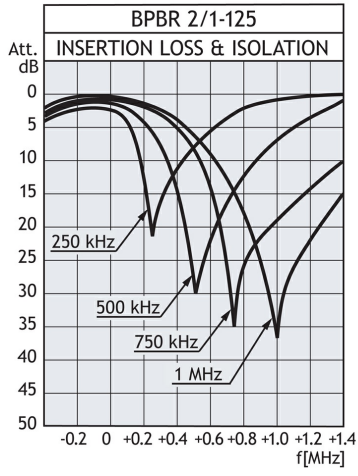


FIGURE 2

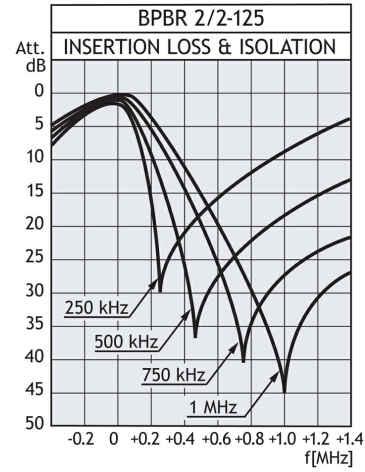


FIGURE 3

