

## BRF 70/...-125

### Band-Reject Filters for the 450 MHz Band

- 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.



### DESCRIPTION

- 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.

### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
BRF 70/1-125	200001240
BRF 70/2-125	200001941
BRF 70/3-125	200001942

### SPECIFICATIONS

ELECTRICAL			
MODEL	BRF 70/1-125	BRF 70/2-125	BRF 70/3-125
FREQ. RANGE	380 - 470 MHz	380 - 470 MHz	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
ATTENUATION	See figure 1	See figure 2	See figure 3
1 dB NOTCH BANDWIDTH	1 % of $f_c$	1 % of $f_c$	1 % of $f_c$
IMPEDANCE	Nom. 50 $\Omega$	Nom. 50 $\Omega$	Nom. 50 $\Omega$
SWR	< 1.5	< 1.5	< 1.5

MECHANICAL			
TEMP. RANGE RH 0-90% non-condensing	-30° C → +60° C	-30° C → +60° C	-30° C → +60° C
FREQ. STABILITY	Approx. 1.5 ppm/° C	Approx. 1.5 ppm/° C	Approx. 1.5 ppm/° C
CONNECTORS	N-female	N-female	N-female
DIMENSIONS	$\varnothing 125$ x 303 mm	L:125 x W:250 x H:303 mm	L:125 x W:375 x H:303 mm
WEIGHT	Approx. 1.2 kg	Approx. 3 kg	Approx. 4.2 kg

TYPICAL RESPONSE CURVES

Figure 1

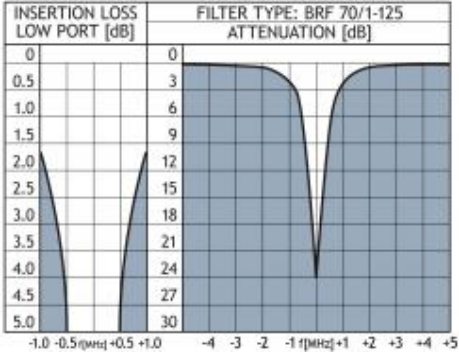


Figure 2

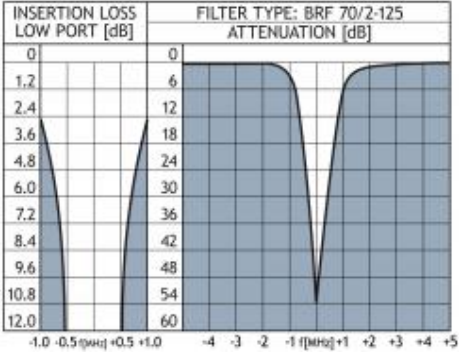


Figure 3

