

# CAVITIES

## BPF 1/...-200

*Band-Pass Filters for the 225 - 400 MHz Band*



### DESCRIPTION:

- ★ High power base station band-pass filters for the 225-400 MHz range.
- ★ The use of large  $\varnothing 200$  mm cavities means a high Q, resulting in a very narrow passband.
- ★ 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.
- ★ Mounted on 19" brackets. \*\*



BPF 1/1-200



BPF 1/2-200 \*\*



BPF 1/3-200 \*\*

### SPECIFICATIONS:

ELECTRICAL			
MODEL	BPF 1/1-200	BPF 1/2-200	BPF 1/3-200
FREQUENCY RANGE	225-400 MHz	225-400 MHz	225-400 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 0.5-2.0 dB	Adjustable 1.0-4.0 dB	Adjustable 1.5-6.0 dB
ATTENUATION	See figure 1	See figure 2	See figure 3
IMPEDANCE	Nom. 50 $\Omega$	Nom. 50 $\Omega$	Nom. 50 $\Omega$
SWR (at resonance)	< 1.5	< 1.5	< 1.5
MECHANICAL			
TEMP. RANGE	-30° C $\rightarrow$ +60° C RH 0-90% non-condensing	-30° C $\rightarrow$ +60° C RH 0-90% non-condensing	-30° C $\rightarrow$ +60° C RH 0-90% non-condensing
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	$\varnothing 200$ x 450 mm	D: 200 x W: 415 x H: 450 mm	D: 410 x W: 410 x H: 450 mm
WEIGHT	Approx. 5 kg	Approx. 11.5 kg	Approx. 16.5 kg

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TYPICAL RESPONSE CURVES:

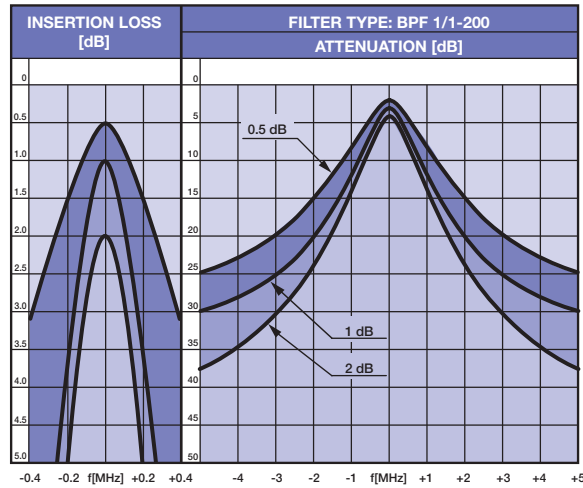


Figure 1

TYPICAL RESPONSE CURVES:

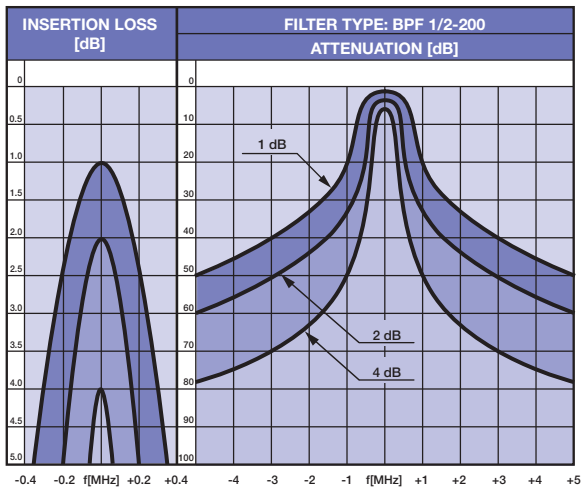


Figure 2

TYPICAL RESPONSE CURVES:

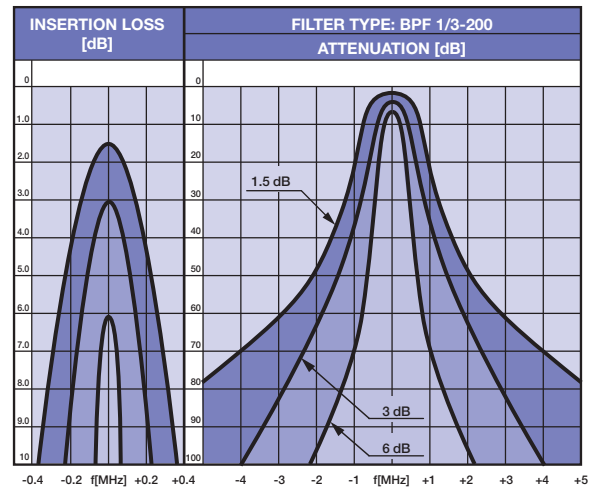


Figure 3