BPF 4/...-250

Band-Pass Filters for the 80 MHz Band

DESCRIPTION:

- ★ High power base station band-pass filters for the 66–88 MHz range.
- ★ The use of large ø250 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. 8000.
- ★ High frequency stability on temperature and power.
- ★ 19" mounting brackets are available as an option (see sec. 9 – Accessories).

BPF 4/1-250

BPF 4/2-250

BPF 4/3-250

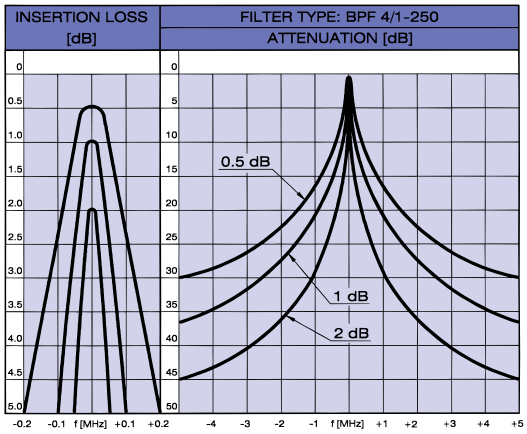
02.2000

CAVITIES

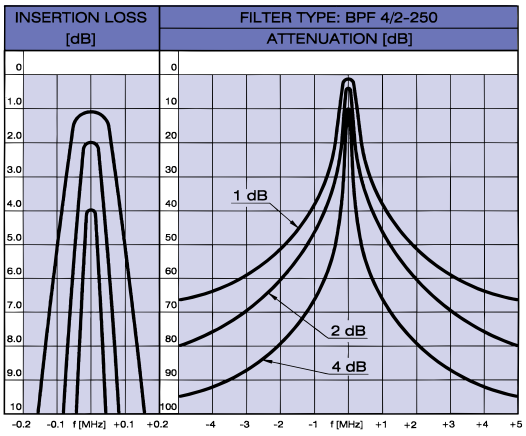
BPF 4/...-250

Band-Pass Filters for the 80 MHz Band

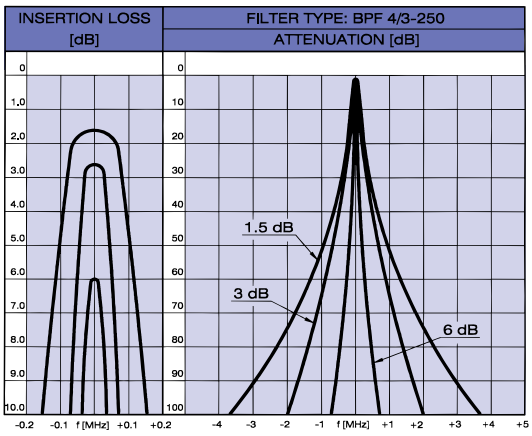
TYPICAL RESPONSE CURVES:



TYPICAL RESPONSE CURVES:



TYPICAL RESPONSE CURVES:



SPECIFICATIONS:

	BPF 4/1-250	BPF 4/2-250	BPF 4/3-250
ELECTRICAL			
FREQUENCY RANGE	66–88 MHz	66–88 MHz	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 0.4–2.0 dB	Adjustable 0.8–4.0 dB	Adjustable 1.2–6.0 dB
ATTENUATION	See figure 1	See figure 2	See figure 3
IMPEDANCE	Nom. 50 Ω	Nom. 50 Ω	Nom. 50 Ω
SWR (at resonance)	≤ 1.5	≤ 1.5	≤ 1.5
MECHANICAL			
TEMP. RANGE	-30° C i +60° C RH 0-90% non-condensing	-30° C i +60° C RH 0-90% non-condensing	-30° C i +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	ø250 x 1200 mm	L: 250 x W: 500 x H: 1200 mm	L: 250 x W: 750 x H: 1200 mm
WEIGHT	Approx. 8.6 kg	Approx. 17.5 kg	Approx. 26.6 kg