BPF 1/...-200

Band-Pass Filters for the 225 - 400 MHz Band

- High power base station band-pass filters for the 225 - 400 MHz range.
- The use of large ø200 mm cavities means a high Q, resulting in a very narrow passband.

DESCRIPTION

- 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. **
- ** See "CAVITY MOUNTING OPTIONS" (ø200 cavity)

ORDERING DESIGNATIONS

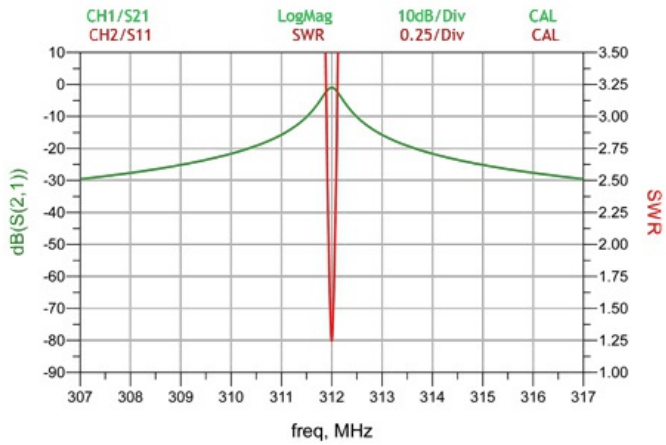
TYPE	PRODUCT NO.
BPF 1/1-200	200002289
BPF 1/2-200	200002290
BPF 1/3-200	200002291

SPECIFICATIONS

ELECTRICAL			
MODEL	BPF 1/1-200	BPF 1/2-200	BPF 1/3-200
FREQ. RANGE	225 - 400 MHz (Under change!)	225 - 400 MHz (Under change!)	225 - 400 MHz (Under change!)
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 Ω	Nom. 50 Ω	Nom. 50 Ω
SWR (at resonance)	< 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	ø200 x 450 mm	L:200 x W:415 x H:450 mm	L:410 x W:410 x H:450 mm
WEIGHT	Approx. 3.2 kg	Approx. 6.6 kg	Approx. 10 kg

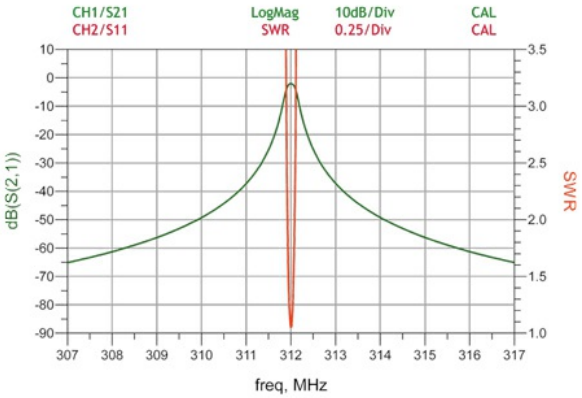
TYPICAL RESPONSE CURVE FOR BPF 1/1-200

Figure 1



TYPICAL RESPONSE CURVE FOR BPF 1/2-200

Figure 2



TYPICAL RESPONSE CURVE FOR BPF 1/3-200

Figure 3