BPF 1/...-200-SHT

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 ø200 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-SHT

BPF 1/2-200-SHT**

BPF 1/3-200-SHT**

ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY	
BPF 1/1-200-SHT	200001562	225 - 400 MHz	
BPF 1/2-200-SHT-L	200001564	225 - 265 MHz	
BPF 1/2-200-SHT-H	200002011	260 - 400 MHz	
BPF 1/3-200-SHT-L	200001728	225 - 265 MHz	
BPF 1/3-200-SHT-H	200002012	260 - 400 MHz	
N-Straight-RG 214-N-Straight -230 mm (H)	210001447		Cable 230 mm for tuning BPF 1/...-200-SHT-L in the H range
N-Straight-RG 214-N-Straight -340 mm (L)	210001446		Cable 340 mm for tuning BPF 1/...-200-SHT-H in the L range

SPECIFICATIONS

ELECTRICAL			
MODEL	BPF 1/1-200 -SHT	BPF 1/2-200 -SHT	BPF 1/3-200 -SHT
FREQ. 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 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. 5 kg	Approx. 11.5 kg	Approx. 16.5 kg

TYPICAL RESPONSE CURVES

Figure 1

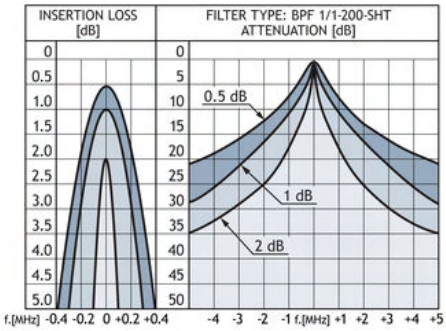


Figure 2

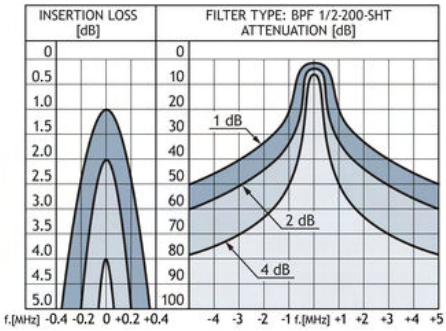
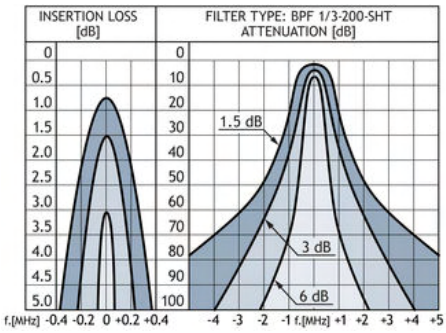


Figure 3



PROCOM A/S reserve the right to amend specifications without prior notice.

08/12/2010