

BPF 900/7...

Interdigital Band-Pass Filter for the 900 MHz Band



DESCRIPTION:

- ★ The BPF 900/7... is a 7-resonator, interdigital band-pass filter for multichannel systems in the 900 MHz band.
- ★ Using interdigital principles the following features are obtained at the same time:
 - ★ Wide Pass Range.
 - ★ Low insertion loss and ripple inside pass range.
 - ★ Steep slopes immediately outside pass range.
 - ★ Heavy attenuation outside the pass range.
- ★ The BPF 900/7... housing is made of silvered brass. Careful design and choice of materials ensure a long lifetime and reliable operation over a wide temperature range.
- ★ The filter can be delivered with centre frequency between 820 and 960 MHz. The specifications and the curves below refer to a filter with 25 MHz port width, but interdigital filters with other port widths and filter characteristics may be quoted on request.

SPECIFICATIONS:

ELECTRICAL	
MODEL	BPF 900/7...
FILTER TYPE	Interdigital band-pass filter
FREQUENCY	BPF 900/7 L: 890–915 MHz BPF 900/7 H: 935–960 MHz BPF 900/7...: (25 MHz BW in range 820–960)
MAX. INPUT POWER	100 watts
PASS RANGE WIDTH	25 MHz (others on request)
INSERTION LOSS	≤ 1.0 dB
ATTENUATION AROUND PASSBAND	± 20 MHz rel. f_c : > 30 dB ± 40 MHz rel. f_c : > 80 dB
ATTENUATION OUTSIDE PASS-RANGE, 0-2 GHz	> 73 dB, typ. > 100 dB (see curves)
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 8 ppm/° C
CONNECTORS	N-female
DIMENSIONS (L x W x H)	285 x 110 x 31 mm
WEIGHT	Approx. 2.5 kg



TYPICAL RESPONSE CURVES:

