

# FILTERS

## BPF 1800/9

*Interdigital Band-Pass Filter  
for the 1800 MHz Band*



### DESCRIPTION:

- ★ The BPF 1800/9 is a 9-resonator, interdigital band-pass filter for multichannel systems in the 1800 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 1800/9 housing is made of silvered brass. Careful design and choice of materials ensure a long life-time and reliable operation over a wide temperature range.
- ★ The filter can be delivered with centre frequency between 1740 and 1840 MHz. The specifications and the curves below refer to a filter with 60 MHz port width, but interdigital filters with other port widths and filter characteristics may be quoted on request.

### SPECIFICATIONS:

ELECTRICAL	
FILTER TYPE	Interdigital band-pass filter
CENTRE FREQUENCY	To be stated within 1740-1840 MHz
MAX. INPUT POWER	100 watt
PASS RANGE WIDTH	60 MHz (others on request)
INSERTION LOSS	≤ 1.0 dB, typ. 0.9 dB
ATTENUATION AROUND PASSBAND	± 50 MHz rel. f.c.: > 30 dB ± 80 MHz rel. f.c.: > 80 dB
ATTENUATION OUTSIDE PASS-RANGE, 0-2 GHz	> 70 dB, typ. > 100 dB (see curves)
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C i +60° C
FREQ. STABILITY	Approx. 8 ppm/° C
CONNECTORS	N-female or 7/16
DIMENSIONS (L x W x H)	360 x 75 x 32 mm
WEIGHT	Approx. 2.2 kg



### TYPICAL RESPONSE CURVES :

