

BPF 24G/7

Interdigital Band-Pass Filter for the 24 GHz Band



DESCRIPTION:

- ★ The BPF 24G/7 is a 7-resonator, interdigital band-pass filter for multichannel systems in the 24 GHz 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 24G/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 20 and 25 GHz. The specifications and the curves below refer to a filter with 1 GHz port width, but interdigital filters with other port widths and filter characteristics may be quoted on request.



SPECIFICATIONS:

ELECTRICAL	
MODEL	BPF 24G/7
FILTER TYPE	Interdigital band-pass filter
CENTRE FREQUENCY	To be stated within 20 and 25 GHz
MAX. INPUT POWER	10 watts
PASS RANGE WIDTH	1 GHz
INSERTION LOSS	≤ 1.0 dB typ.
ATTENUATION AROUND PASSBAND	± 1 GHz rel. f_c : approx. 30 dB ± 2 GHz rel. f_c : approx. 60 dB
ATTENUATION OUTSIDE PASS-RANGE	> 70 dB, typ. > 75–80 dB
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 8 ppm/° C
CONNECTORS	SMA-female
DIMENSIONS (L x W x H)	65 x 6.8 x approx. 18 mm incl. conn.
WEIGHT	Approx. 60 g

