

# BPF 70/4

Band-Pass Filter for the 450 MHz Band

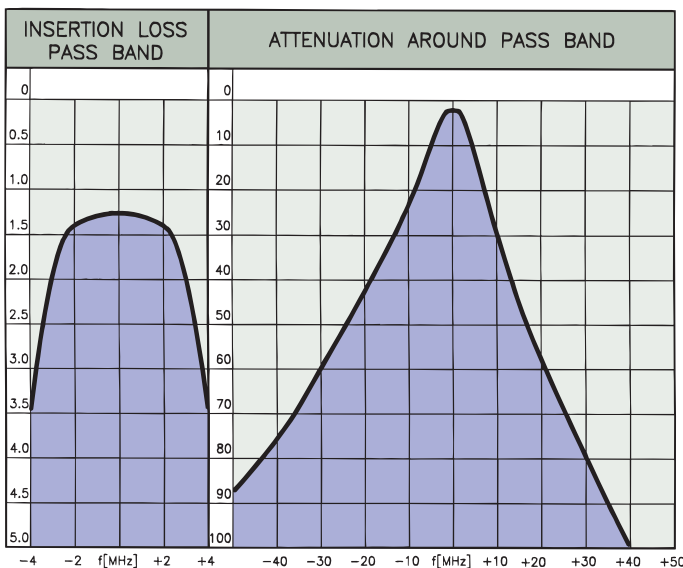


## DESCRIPTION:

- ★ The BPF 70/4 is a  $4\frac{1}{4}\lambda$  resonator band-pass filter with inductive coupling between the resonators.
- ★ This filter can be used as a preselector to protect a receiver from interference from transmitters outside the band-pass limits.
- ★ When installed in the output of a transmitter, the BPF 70/4 reduces spurious signals.
- ★ The BPF 70/4 is adjustable over the range 406-470 MHz.
- ★ Careful choice of materials ensures reliable functioning over a wide temperature range.
- ★ Extruded aluminium sections, steel racks and coax cables and connectors with teflon insulation ensure good mechanical strength.
- ★ The filter is black vinyl coated to prevent corrosion.



## TYPICAL RESPONSE CURVES:



## SPECIFICATIONS:

ELECTRICAL	
MODEL	BPF 70/4
FILTER TYPE	Band-pass filter
TUNING RANGE	406-470 MHz
MAX. INPUT POWER	50 watts
INSERTION LOSS	≤ 1.5 dB (typ.)
0.5 dB BW MHz	Min. 4 MHz
ATTENUATION AROUND PASS-BAND	See curves
OUT OF BAND ATTENUATION	See curves
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
CONNECTORS	BNC-female (others on request)
DIMENSIONS (L x W x H)	230 x 104 x 33 mm
WEIGHT	Approx. 690 g