

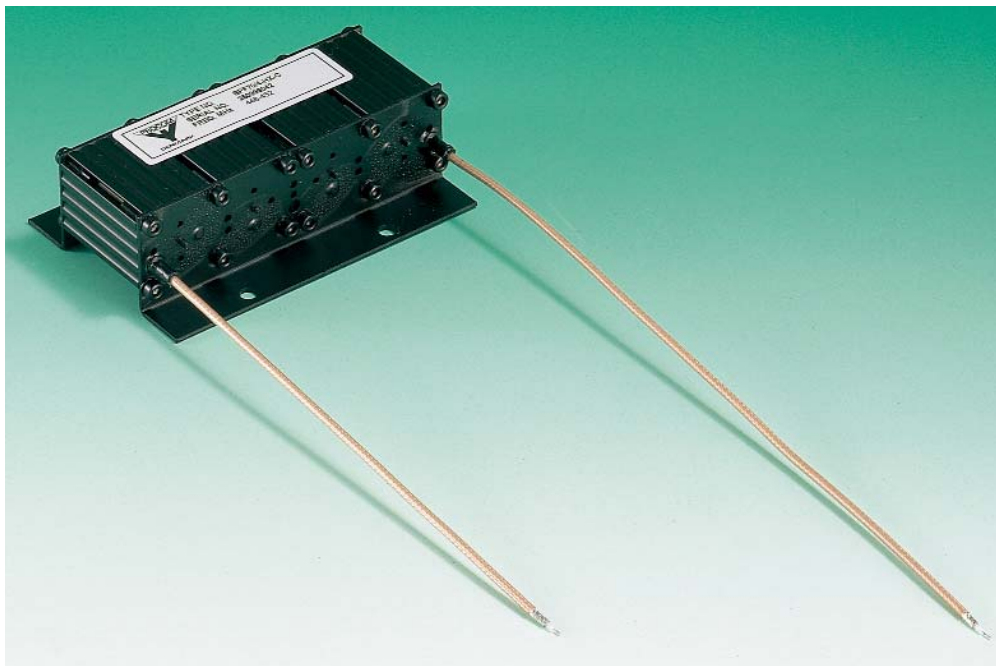
# BPF 70/4-HX

## Band-Pass Filter for the 450 MHz Band

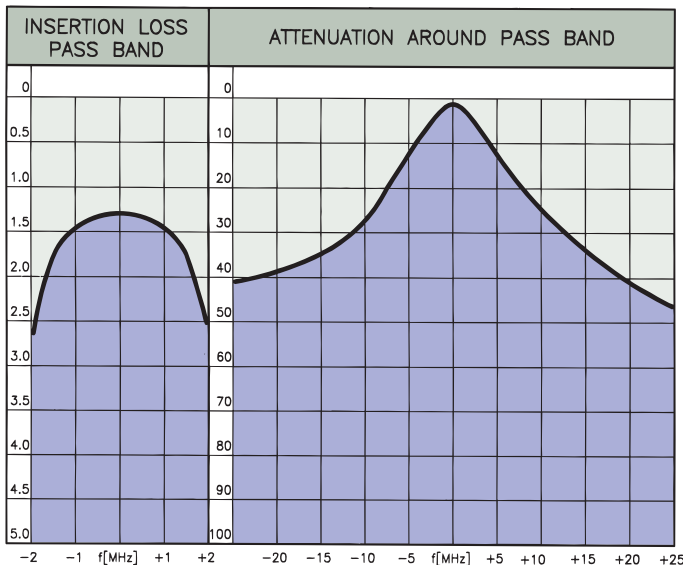


### DESCRIPTION:

- ★ The BPF 70/4-HX is a 4 helical resonator band-pass filter with aperture 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.
- ★ The BPF 70/4-HX-C (C = cable) can be installed directly into the PRO-AR4G-N, PRO-AR8G-N and PRO-AR16G-N receiver multicouplers as a preselector.
- ★ When installed in the output of a transmitter, the BPF 70/4-HX reduces spurious signals.
- ★ The BPF 70/4-HX is adjustable over the range 406-470 MHz.
- ★ Very compact due to use of helical resonators.
- ★ Careful choice of materials ensures reliable performance 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-HX
FILTER TYPE	Band-pass filter
TUNING RANGE	406-470 MHz
MAX. INPUT POWER	35 watts
INSERTION LOSS	≤ 1.5 dB typ. 1.2 dB
0.5 dB BW MHz	Min. 3 MHz
ATTENUATION AROUND PASS-BAND	See curve
OUT OF BAND ATTENUATION	See curve
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)	115 x 104 x 33 mm
WEIGHT	Approx. 430 g