

## Band-Pass Filter for the 450 MHz Band

### **DESCRIPTION**

- The BPF 70/4 is a 4 resonator ¼ λ 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 at the output of a transmitter, the BPF 70/4 reduces spurious signals.
- The BPF 70/4 is adjustable over the range 380 470 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.
- ▶ BPF 70/4 is coated with black vinyl to prevent corrosion.
- The filter is delivered in standard version with 4 MHz bandwidth, other bandwidths can be requested when ordering (up to 10 MHz)

### **SPECIFICATIONS**

Electrical			
Model	BPF 70/4		
Filter Type	Band-pass filter		
Frequency	380 - 470 MHz		
Insertion Loss	< 1.5 dB		
Impedance	50 Ω		
Reject Attenuation	See curves	See curves	
VSWR	< 1.5:1		
Maximum Input Power	50 W		
Bandwidth	4 MHz - 10 MHz (Specify when ordering)		

Mechanical		
Connection(s)	N female, BNC female or TNC female (others on request)	
Dimensions	208 (without connectors) x 104 x 33 mm	
Weight	0.69 kg / 1.52 lb	

Environmental	
Operating Temperature Range	-30°C to +60°C

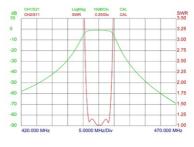
### **ORDERING**

Туре	Product No.
BPF 70/4 N(f)	200000925
BPF 70/4 BNC(f)	200000923
BPF 70/4 TNC(f)	200001125



#### **DIAGRAM**

### TYPICAL RESPONSE CURVES



# MOUNTING DETAILS

