

Band-Pass Filter for the 450 MHz Band

DESCRIPTION

- The BPF 70/4 is a 4 resonator  $\frac{1}{4} \lambda$  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	
Max. Input Power	50 W	
Insertion Loss	< 1.5 dB	
Impedance	50 $\Omega$	
Reject Attenuation	See curves	See curves
VSWR	< 1.5:1	
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	

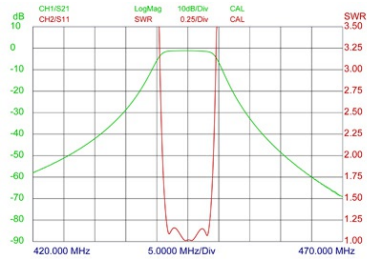
ORDERING

Model	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

