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.
- 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.
- The careful choice of materials, ensures the filter will function reliably 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.



SPECIFICATIONS

Electrical		
Model	BPF 70/4-HX	
Filter Type	Band-pass filter	
Frequency	BPF 70/4-HX/l: 406 - 440 MHz BPF 70/4-HX/h: 430 - 470 MHz	
0.5 dB Bandwidth	Min. 3 MHz	
Impedance	50 Ω	
Reject Attenuation	See curves	See curves
VSWR	< 1.5:1	
Maximum Input Power	35 W	

Mechanical	
Connection(s)	N(f), BNC(f), SMA(f) (Other on request)
Dimensions	110.6 x 104 x 33 mm
Weight	0.43 kg / 0.95 lb

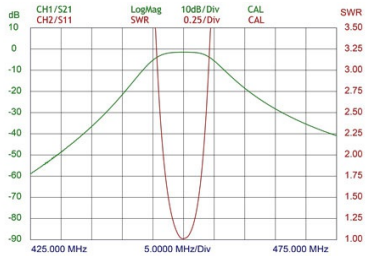
Environmental	
Operating Temperature Range	-30°C to +60°C

ORDERING

Type	Product No.
BPF 70/4-HX/l BNC	200002209
BPF 70/4-HX/l N	200000975
BPF 70/4-HX/l SMA	200002174
BPF 70/4-HX/h BNC	200000908
BPF 70/4-HX/h N	200001130
BPF 70/4-HX/h SMA	200002119

DIAGRAM

TYPICAL RESPONSE CURVES



MOUNTING DETAILS

