

Band-reject (notch) filter for the 450 MHz Band

DESCRIPTION

- The BRF 70/6-150 is a 6-resonator notch-filter using full-length ¼ λ cavities.
- This filter rejects a narrow band of frequencies and passes all others.
- The filter can be applied both in connection with transmitters and receivers to attenuate interfering signals which cause cross modulation effects.
- The filter can be employed as a single component or it can act as an integrated part of a complete multi-coupling system.
- The BRF 70/6-150 can be tuned within the complete 380 - 470 MHz band. Careful design and choice of materials ensure reliable operation over a wide temperature range.
- The housing is made of extruded aluminium, the chassis of brass, and teflon insulation has been applied in the coaxial cables and in the connectors.
- The filter is coated with black vinyl to prevent corrosion.



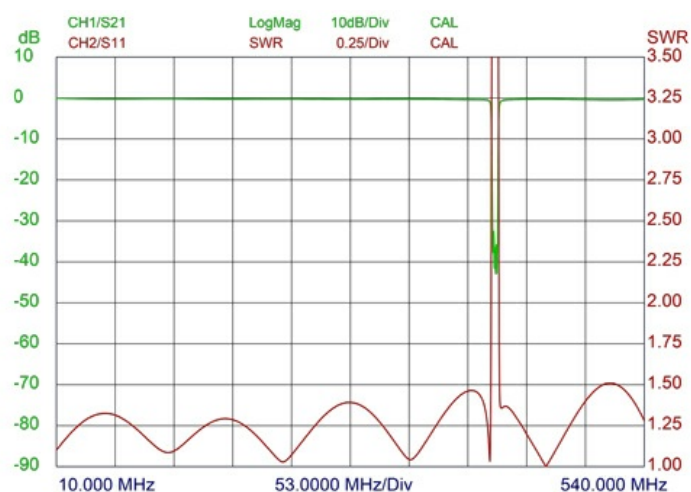
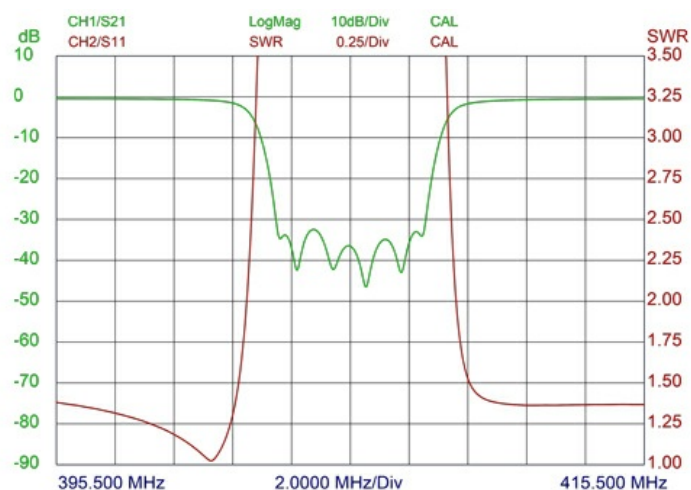
SPECIFICATIONS

Electrical	
Model	BRF 70/6-150
Filter Type	Band-reject (notch) filter
Frequency	380 - 470 MHz
Max. Input Power	50 W @ IL < 1.0 dB 150 W @ IL < 0.5 dB
Pass Band Insertion Loss	< 0.5 dB
Impedance	50 Ω
Reject Attenuation	> 25 dB @ 5 MHz BW (See curve)
VSWR	20 - 380 MHz : < 1.5 :1 420 - 530 MHz : < 2.0:1
Mechanical	
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)
Dimensions	260 x 250 x 50 mm / 10.24 x 9.84 x 1.97 in.
Weight	Approx. 2.5 kg / 5.51 lb.
Environmental	
Operating temperature range	-30 °C to +60 °C

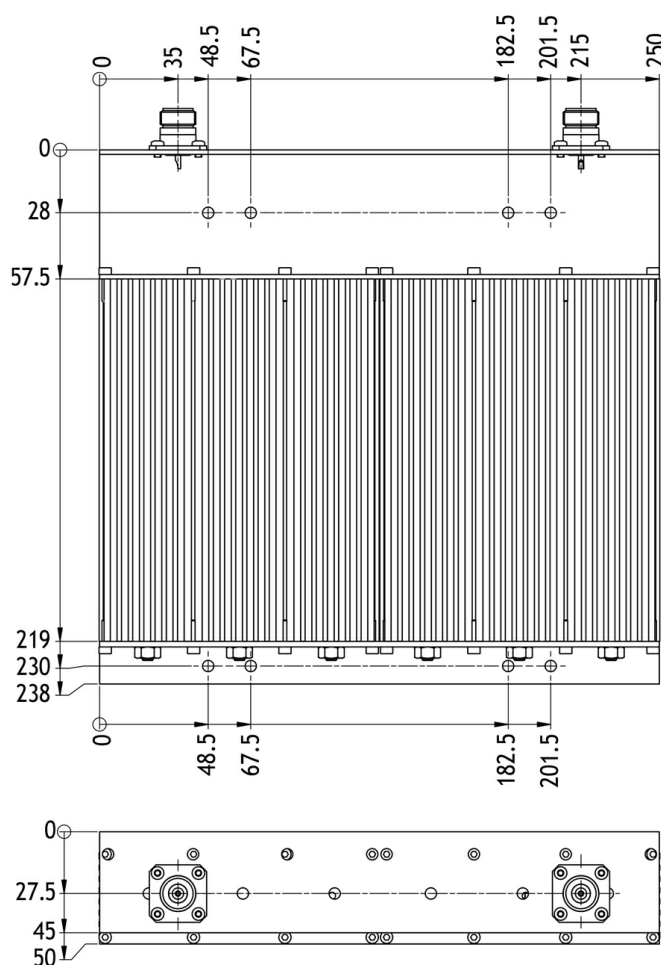
ORDERING

Model	Product No.
BRF 70/6-150-N(f)	200001244

TYPICAL RESPONSE CURVES



MOUNTING DETAILS



All dimensions are given in mm.

PLEASE NOTE

The notch filter resonators can also be separately tuned to three different frequencies in a "multiple notch" configuration, but the attenuation on each frequency is then only approximately one third of the normal attenuation when all notches work together.