

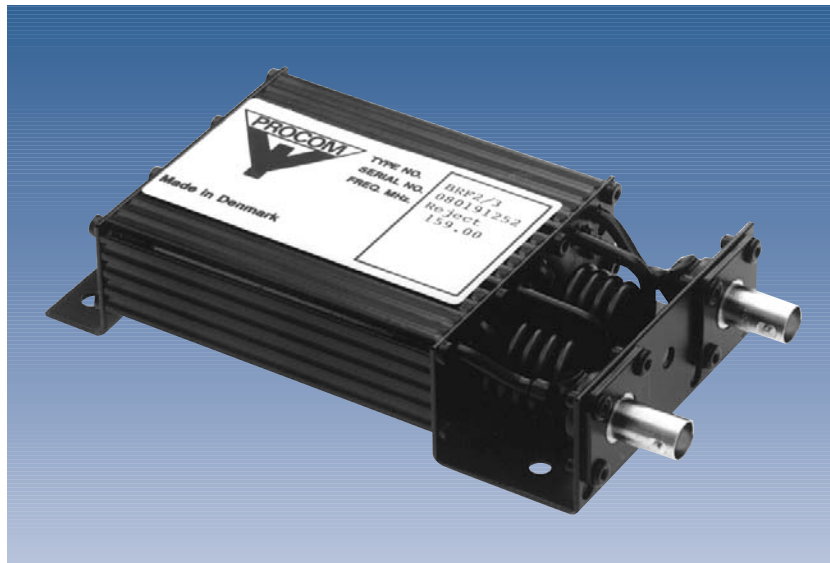
BRF 2/3

Band-Reject (Notch) Filter for the 160 MHz Band



DESCRIPTION:

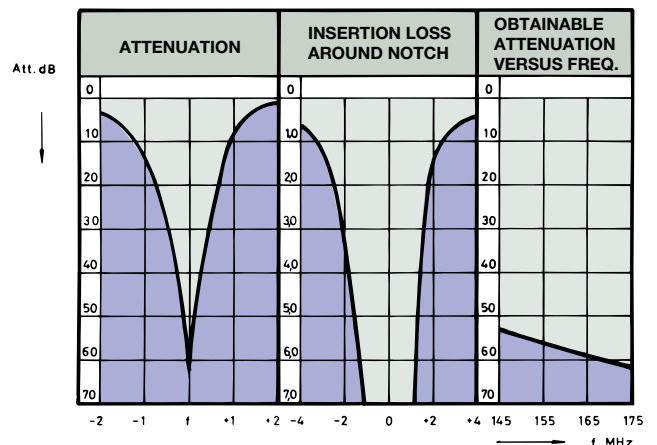
- ★ The BRF 2/3 is a 3-cavity notch-filter using helical resonators.
- ★ This filter rejects a narrow band of frequencies in the 2 m band and passes all others in the range 0-430 MHz. The filter can be applied both in connection with transmitters and receivers to attenuate interfering signals which cause cross modulation effects. The filter can be employed as a single component or it can function as an integrated part of a complete multicoupling system.
- ★ The BRF 2/3 can be tuned within the complete 144-175 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 passivated steel, and teflon insulation has been applied in the coaxial cables and in the connectors.
- ★ The filter is black vinyl coated to prevent corrosion.



SPECIFICATIONS:

ELECTRICAL	
MODEL	BRF 2/3
FILTER TYPE	Band-reject (notch-) filter
TUNING RANGE	144-175 MHz
MAX. INPUT POWER	50 watts
INSERTION LOSS (out of reject area, 0-430 MHz)	≤ 0.8 dB
REJECT ATTENUATION (Notch depth)	
Single channel tuned	≤ 53 dB
Multi channel tuned, 1.0 MHz BW	≥ 24 dB
1 dB NOTCH BAND WIDTH	At 144 MHz: Approx. +2.3/-2.2 MHz At 175 MHz: Approx. +2.6/-3.6 MHz
IMPEDANCE	Nom. 50 Ω
SWR (out of reject area)	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 10 ppm/° C
CONNECTORS	BNC-female
DIMENSIONS (L x W x H)	165 x 77 x 33 mm
WEIGHT	Approx. 420 g

TYPICAL RESPONSE CURVES:



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.