

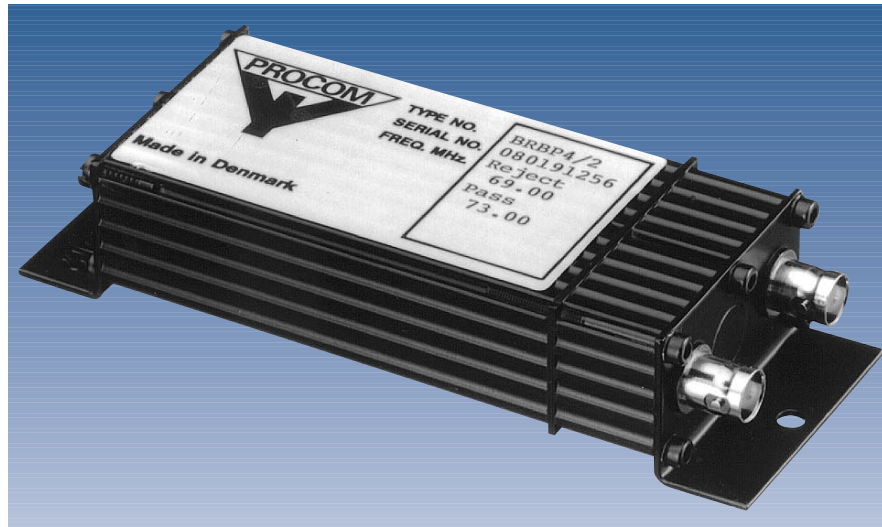
BPBR 4/2 / BRBP 4/2

Band-Pass – Band-Reject Filters for the 80 MHz Band



DESCRIPTION:

- ★ The BPBR 4/2 and the BRBP 4/2 are 2-cavity pass-reject filters, which pass one frequency or frequency band and reject another in immediate vicinity of the pass frequency.
- ★ The BPBR 4/2 has the reject range on the high side of the pass frequency and the BRBP 4/2 has the reject range situated on the low side of the pass frequency.
- ★ These filter types can be used to protect a receiver against interference from a nearby transmitter. The filters are tuned to reject the interfering signal. BPBR-type filters are applied when the spacing between the utility signal and the interfering signal is so small, that the slope steepness of normal band-pass filters or notch filters are not sufficient enough to provide adequate rejection.
- ★ The standard BPBR-filters can be tuned within the complete 4 m-band with 1.5 to 16 MHz spacing between the operating frequencies. Insertion loss is below 1.0 dB at spacings between 2 and 16 MHz. At the narrowest spacing of 1.5 MHz, insertion loss is kept under 1.9 dB.
- ★ The filters have very small dimensions owing to the use of high-Q helical resonators with discrete-component interconnections.
- ★ The housing is made of extruded aluminium, the chassis of passivated steel, and the connectors are provided with teflon insulation. The filters are black vinyl coated to prevent corrosion.
- ★ Careful design and choice of materials ensure reliable operation over a wide temperature range.



SPECIFICATIONS:

ELECTRICAL	
MODEL	BPBR 4/2 / BRBP 4/2
FILTER TYPE	Band-pass / band-reject filters
TUNING RANGE	66-88 MHz (Option: 88-104 MHz)
MAX. INPUT POWER	@ 2-16 MHz spacing : 50 watts @ 1.5 MHz spacing : 35 watts
INSERTION LOSS	
at 1.5 MHz spacing	≤ 1.9 dB
at 2.5 MHz spacing	≤ 1.0 dB
at 3.5 MHz spacing	≤ 0.5 dB
at 16 MHz spacing	≤ 0.3 dB
REJECT ATTENUATION	≥ 60 dB
PASS/REJECT SPACING	1.5-16 MHz
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 10 ppm/° C
CONNECTORS	BNC-female
DIMENSIONS (L x W x H)	150 x 52 x 33 mm
WEIGHT	Approx. 250 g

TYPE NO.	PASS RANGE	REJECT RANGE
BPBR 4/2	Low	High
BRBP 4/2	High	Low

PROCOM A/S reserve the right to amend specifications without prior notice.

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TYPICAL RESPONSE CURVES:

