BPF 2/4-...

Band-Pass Filter for the 160 MHz Band



DESCRIPTION

- The BPF 2/4-... 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.
- The BPF 2/4-C (C = cable) can be installed directly into the PRO-AR4G-N, PRO-AR8G-N and PRO-AR16G-N receiver multicouplers as a preselector.
- When installed in the output of a transmitter, the BPF 2/4 reduces spurious signals.
- The BPF 2/4-... is adjustable over the range 144 - 175 MHz.
- Very compact due to use of helical resonators.
- Careful choice of materials ensures reliable performance over a wide temperature range.
- Extruded aluminium sections, steel racks and coaxial cables and connectors with teflon insulation ensure good mechanical strength.
- The filter is coated with black vinyl to prevent corrosion.

SPECIFICATION

PRODUCT INFORMATION

Model	BPF 2/4-...
Last Update	7 Oct 2026

ELECTRICAL

Frequency	144 - 175 MHz
Max. Input Power	35 W
Insertion Loss	≤ 1.5 dB (at fc)
Impedance	50 Ω
VSWR	< 1.5:1
Bandwidth	Can be ordered with 2, 4 or 6 MHz
Filter Type	Band-pass filter
Reject Attenuation	See curves

ENVIRONMENTAL	
Operating temperature range	-30 °C to +60 °C

MECHANICAL	
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)
Historic Brand	Amphenol Procom
Dimensions	165 x 104 x 33 mm / 6.5 x 4.1 x 1.3 in.
Weight	Approx 0.5 kg / 1.10 lb.

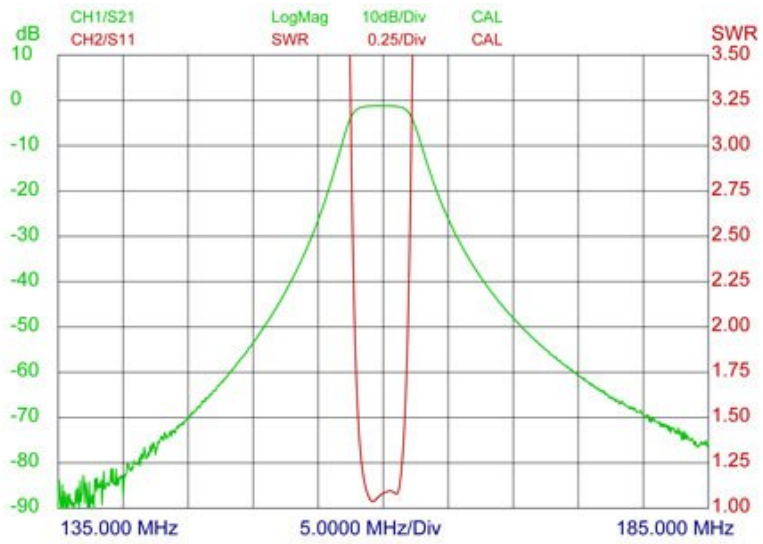
ORDERING CODES

MODEL	ITEM ID	FREQUENCY	ADDITIONAL INFORMATION
BPF 2/4-2-N(f)	200000845	2 MHz	N(f)
BPF 2/4-4-N(f)	200000816	4 MHz	N(f)
BPF 2/4-6-N(f)	200002090	6 MHz	N(f)

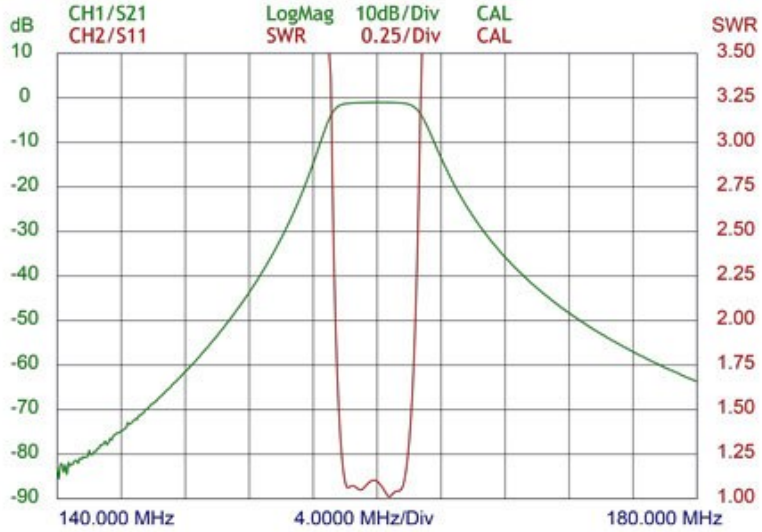
ADDITIONAL INFORMATION

Typical response curves

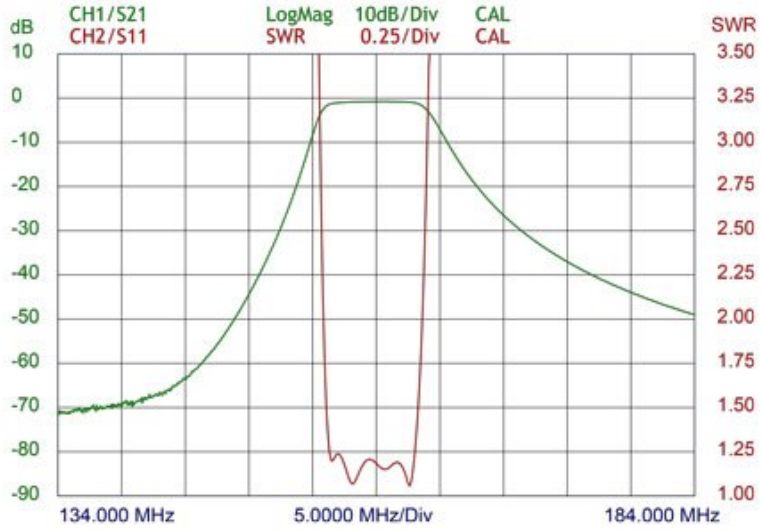
2 MHz



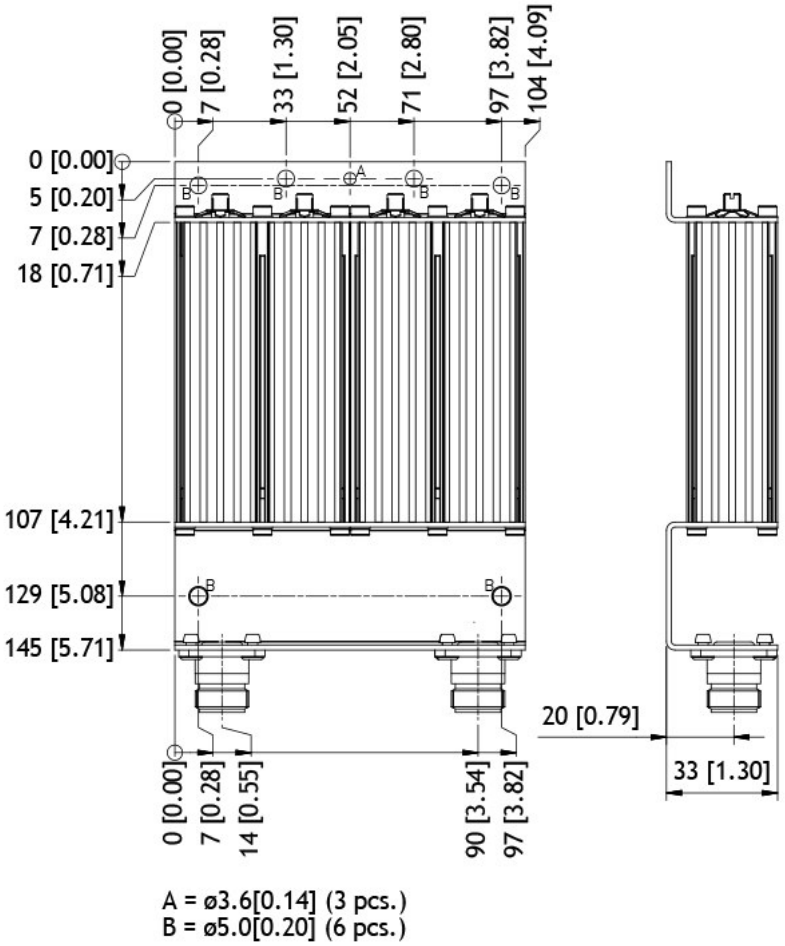
4 MHz


dB
CH1/S21
CH2/S11
LogMag
SWR
10dB/Div
0.25/Div
CAL
CAL
SWR
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
3.50
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
1.00
140.000 MHz
4.0000 MHz/Div
180.000 MHz

6 MHz


dB
CH1/S21
CH2/S11
LogMag
SWR
10dB/Div
0.25/Div
CAL
CAL
SWR
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
3.50
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
1.00
134.000 MHz
5.0000 MHz/Div
184.000 MHz

Mounting Details



All dimensions are given in mm [in.]