

# BROADBAND PROPAGATION

## Antenna Design & Supply

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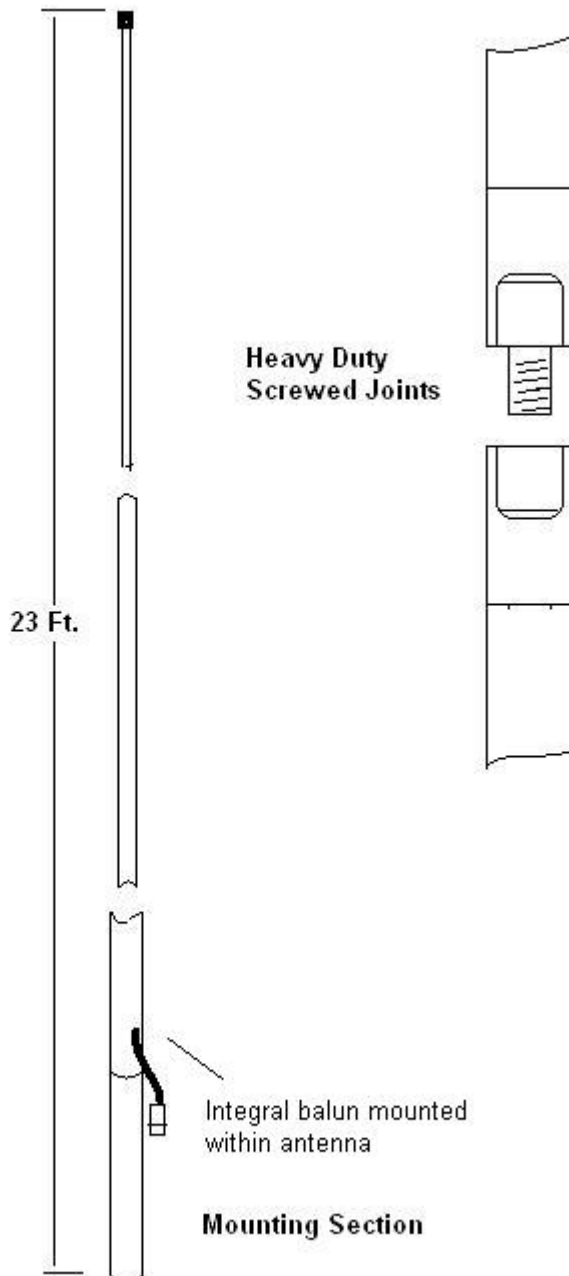
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## BP-HFBW HF BASE-STATION WHIP

An extremely robust HF whip antenna designed for marine or land use in permanent-base or portable applications. The antenna is ruggedised for military, paramilitary or similar use and is constructed to withstand the rigours of tactical use in combat environments.

Materials and finishes are carefully selected for maximum protection from corrosion and moisture and the antenna has guaranteed longevity in all environments ranging from marine, through to tropical and desert.

The antenna is supplied in two sections Heavy-duty screwed joints ensure rapid and repeated assembly/disassembly without wear or degradation of electrical performance. It can be supplied as a broadband receive antenna or as a transmit/ receive antenna for use with external tuner.



### Construction

Constructed from ultra-high strength laminated fibreglass and extruded T-591 aluminium alloy tubing with a heavy duty polyolefin coating sheath.

Heavy duty, screwed, section joints ensure maximum reliability and repeatability of assembly/ disassembly.

### Specifications

Frequency Range: 2-30 MHz  
Maximum Power: Receive Only  
Polarization: Vertical  
Radiation Pattern: Omni Directional  
RF Connector: N type female  
(or other specified by customer)

Antenna Height: 7.01m (23 ft.)  
Mounting Diameter: 40 mm (1.57")  
Colour: Matt black.  
Shipping Weight: 3 KG  
Shipping Length: 2 section, 3.66 m (12.0ft)

### FEATURES

***An integral Receive-only balun matching transformer is included, mounted within the antenna to improve matching to the receiver.***

***Antenna is loaded to improve performance between 2-7 MHz***

An N type female RF connector is supplied as standard but other types of connector can be provided.

If a non standard connector is required please specify when ordering.

The antenna is supplied with a rugged mounting base Fitted with US 4, and NATO 3/ 6 hole mounting patterns.

## **BP-HFBW HF BASE-STATION WHIP Mounting Base**



***A heavy duty mounting based designed specifically for use with the HFBW-Rx HF Base Station Whip Antenna.***

This base is machined from a solid billet of Acetal Copolymer which is attached to an anodised aluminium mounting plate fitted with US 4 and NATO 3/ 6 pattern mounting holes.

Two stainless steel quick-release screw clamps secure the antenna to the base to facilitate rapid assembly and disassembly of the antenna.

Base Height: 15 cm  
Base Diameter: 14 cm  
Base Weight: 2.3 Kilograms