



# ANTENNA EXPERTS

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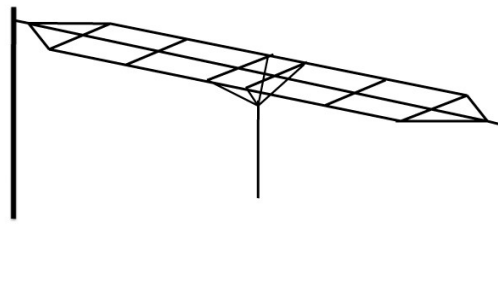
**Model # HFM-230**

**Frequency 2 – 30 MHz.**

**3 dBi Gain**

## HF MULTI-WIRE OMNI-DIRECTIONAL BROADBAND DIPOLE ANTENNA

**DESIGN FEATURES:** The HFM-230 Multi-wire Broad Band Folded Dipole Antenna offer optimum performance, fully automatic, low SWR operation over the entire HF band 2–30 MHz and suitable for transmitting, receiving or HF spectrum monitoring or surveillance. The HF 3 wire broadband dipole antenna propagates NVIS, local, medium or long distance communications. This HF broadband dipole antenna is ready to go right out of the box, no taps to change frequency, nothing to tune - ever! Designed for the military and built to last. The HFM-230 can work any frequency you want without going through a lot of knob twirling and measurements to get a good VSWR match - just set your frequency and go!



**CONSTRUCTIONS:** The HF 3-wire broadband antenna is designed for broad band operation for fixed stations application. The radiating element of dipole is made of ultra corrosion resistant marine grade stainless steel to ensure the survivability in worst environment conditions. The HF 3-Wire broadband dipole antenna can be mounted either in an inverted "V" using a single mast, or in a standard dipole configuration (Horizontal Polarized) using two masts. The HF Broad Band Dipole Antenna provides optimum performance over complete HF band, eliminating the requirement of multiple antennas or an Antenna Tuning Unit, minimizing the cost and setup requirements. Antenna does not use any terminating resistor so full power is available for radiation to increase the overall efficiency of the antenna.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	2 - 30 MHz.
Gain	3 dBi
Bandwidth	Entire 2-30 MHz.
Polarization	Horizontal or Inverted "V"
Input Impedance	50 Ohms.
Radiation Pattern	Omni-directional
VSWR – Better Than	2.5 : 1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female or UHF-Female
Lightning Protection	Direct Ground

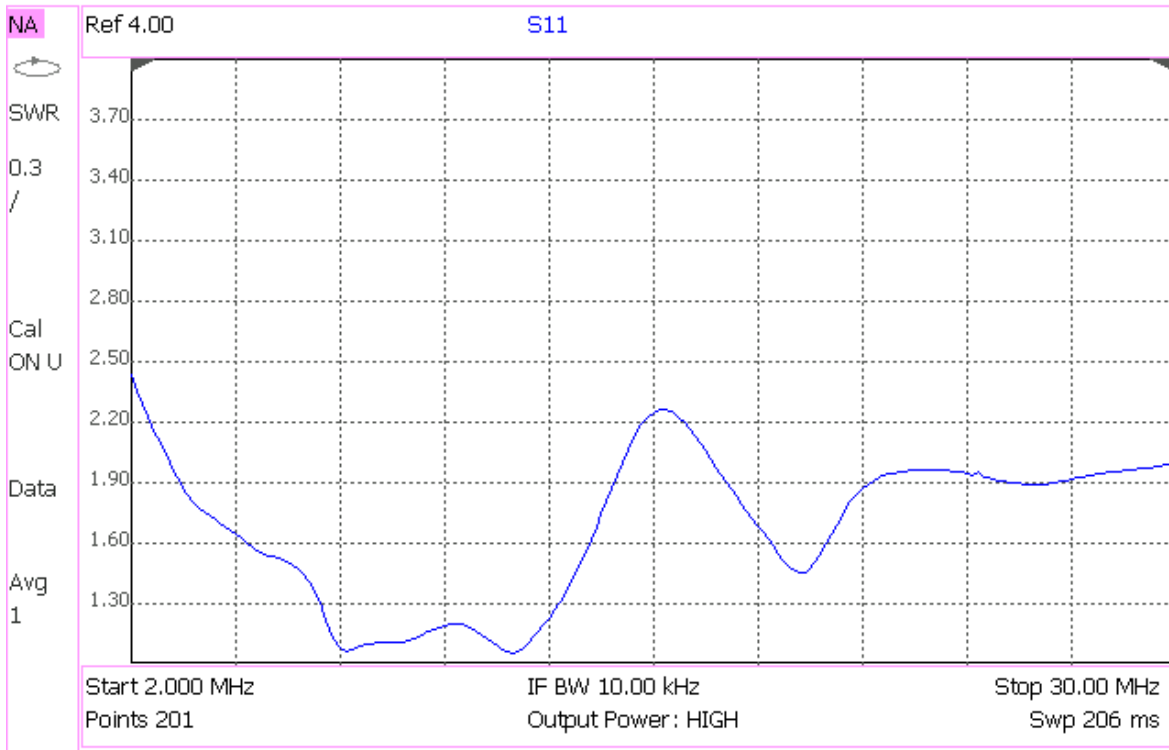
### MECHANICAL SPECIFICATIONS:

Net Weight	8 Kgs. (antenna only)
Wind Rating	180 Km/Hr.
Balun Base Diameter	65 mm (Balun)
Base Material	Nylon (Balun)
Overall Length	28 Meters.
Shipping Box Size	1.4 x 0.15 x 0.15 Meter
Dipole Radiating Element Materials	Stainless Steel
Spreaders Materials	FRP Pipe
Insulator Materials	Nylon
Recommended Mast Height	9 Meters (30 Feet)
Distance between Mast	30 Meters

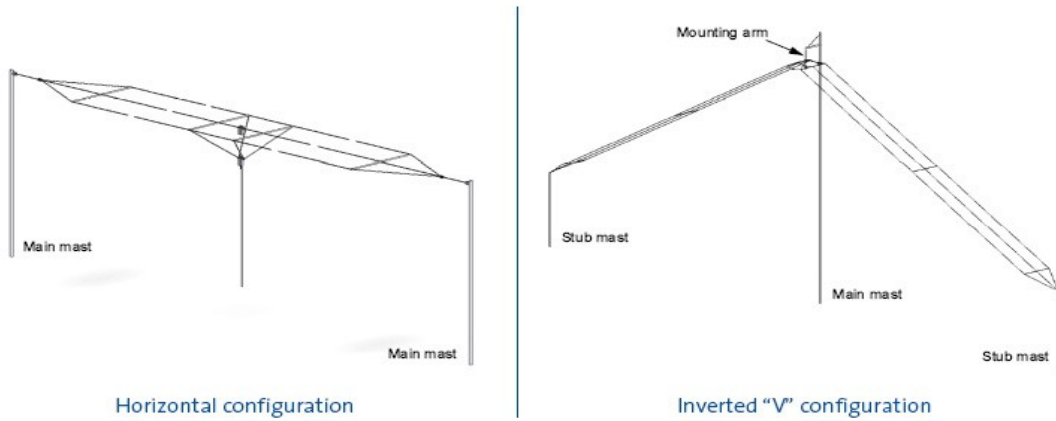
### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)40 to +65 Degrees Celsius
Storage Temperature	(-)50 to +75 Degrees Celsius
Humidity	0 to 95% RH

**VSWR Vs FREQUENCY CURVE  
HF MULTI-WIRE BROADBAND ANTENNA  
MODEL # HFM-230**



**MOUNTING CONFIGURATION "HORIZONTAL OR INVERTED "V"  
HF MULTI-WIRE BROADBAND ANTENNA  
MODEL # HFM-230**



Note: All information contained in the datasheet is subject to change without any prior notice.