

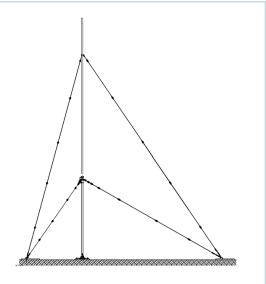
This monopole antenna has been designed for HF receiving applications where high reliability is required. The antenna is suited for use in an array.

This antenna will provide good performance from 1.5 to 32 MHz. For enhanced performance, models MLB-130 and MHB-65 can be used together to provide separate low band and high band receiving elements. Refer to external document link.

The antenna consists of two rugged aluminium tubes with a solid insulator fitted approximately one-third of the way up from the base of the antenna. A transformer is fitted across the insulator that provides a suitable impedance transformation to a 50-ohm coaxial cable. The combination of elevated feed-point height and transformer impedance provides a good impedance match over a wide operating bandwidth.

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A radial earth mat of any length, consisting of up to 64 copper wires can be fitted to the base of the antenna, to stabilise antenna impedance and radiation patterns.



FEATURES / BENEFITS

- Rugged, high-reliability construction
- Proven performance over many decades in harsh environmental conditions
- Cyclonic wind rating

Technical features

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	1.5 - 32
Polarization		Vertical
Elevation Radiation Pattern		Refer to plot
Azimuth Radiation Pattern		Omni Directional
Maximum Power Rating	kW	0.25 average
Input Connector		N-type socket
Impedance (unbalanced), ohms	Ω	50

MECHANICAL SPECIFICATIONS

Antenna Ground Dimension	m	Depends on length of buried ground radials, typically 26m x 26m using ground radials with 13m length
Wind Survival Rating (no ice)	km/h (mph)	337 (209)
Wind Load Comment		See Note 1

TEMPERATURE SPECIFICATIONS

Operating Temperature Range	°C (°F)	-20 to 70 (-4 to 158)

MATERIAL

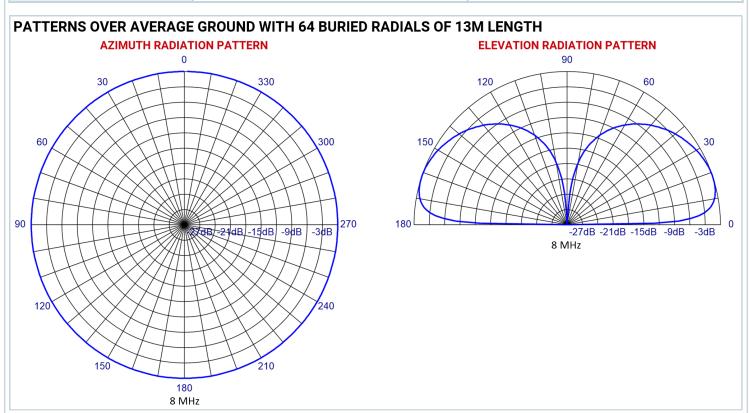
Material - Guys	Insulated Stainless Steel, Phillystran option.
Material - Radiators	Aluminium Tube
Material - Earth Mat	Up to 64 copper radials, Length as required

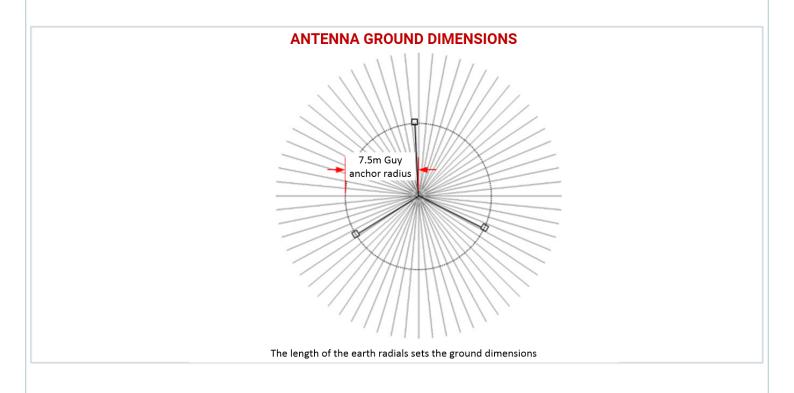
MLB-130 REV: 02 REV DATE: 10 Sep 2021 www.rfsworld.com



PACKAGING INFORMATION

Shipping information	Packed weight [kg]	Packed size [m]
MLB-130	264	8.8 x 0.2 x 0.15 and 1.2 x 1.2 x 0.6





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External Document Links	Notes 1. Wind ratings are calculated to Australia standard AS1170.2:2011

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