

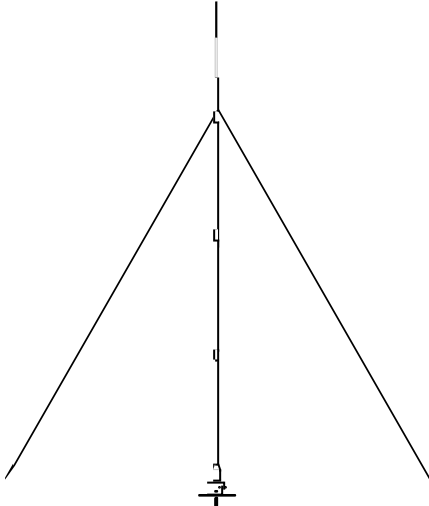


M O O N R A K E R

Type 9.5M

HF base station antenna system

Designed for permanent or temporary installation on buildings or on open ground to provide long distance communications whether in remote areas or in the city.



The 9.5M is practical to transport and easily erected and dismantled by the individual, being assembled from 2m (6.5ft) lengths. Roof mounting in city locations is both convenient and unobtrusive. Tempered corrosion resistant aluminium alloy tubing 32mm (1.25in) at base, tapering to 16mm (5/8in) at top, provides a large low loss radiating surface and, when trapped and/or loaded, extreme high efficiency is achieved. A low loss polypropylene insulator is fitted at the base.

The guy point, 6m (20ft) from the base, suspends one set of four electrically transparent Dyneema guys, 4mm (11/64in) in diameter. The guy point is of aluminium and fastenings are of stainless steel. A hot dip galvanised steel adjustable angle base plate and ground spike with provision for attaching ground radials is used for open ground installations and for roof building erection, a hot dip galvanised adjustable steel bracket is supplied.

The antenna is usually supplied unloaded and self resonant at approximately 7.5 MHz but may be supplied trapped and/or loaded for high efficiency multi-frequency operation. An antenna tuning unit is normally required, and, for efficient operation, a low impedance ground plane or earth mat system is necessary. When erected on open ground, at least four wire radials extending as far as practicable from the base are desirable, especially in dry ground conditions, and for building erection, metal roofing or ground plane radials are recommended. An antenna tuning unit is normally required. Roof ground plane or earth mat systems are options, as are tuned top sections and lightning protection units. (See type LPU for details.)

SPECIFICATIONS

HF Band	2-30 MHz
Length	9.5m (32ft)
Pattern	Omnidirectional
Polarisation	Vertical
Guy Spread	Recommended not less than 3m (9.75ft) radius
Guy Tension	Recommended 4kg (8.8 lbs)
Frequency Range	Pretuned to frequency or frequencies required, or, unloaded 2-30 MHz. A suitable ATU is required.
Wind Loading at guy point	8.2kg at 100 km/h (18.04 lbs at 60 mph) 13.9kg at 130 km/h (30.6 lbs at 81 mph)
Vertical Force on Base at Minimum Guy Spread	25kg at 100 km/h (55 lbs at 60 mph) 40kg at 130 km/h (88 lbs at 81 mph)
Power Capability	1kW PEP for normal loaded top sections; 500w PEP for trapped top sections; 1kW PEP for unloaded top sections.
Mountings	On open ground: adjustable angle ground plate, 300 x 300 x 5mm (12 x 12 x 3/16 in) with ground spike and provision for connection of earth mat radials; On buildings: adjustable angle bracket. Both mountings are supplied in kit form.
Connection	Cable Lug at base of antenna
Packed Weight	Antenna: with ground mount 11.0kg (24.2 lbs); with building mount 8.0kg (17.6 lbs). Ground Plane 4.0kg (8.8 lbs) Earth Mat 6.0kg (13.3 lbs)

Specifications subject to change 10/08

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