

Type MW3088

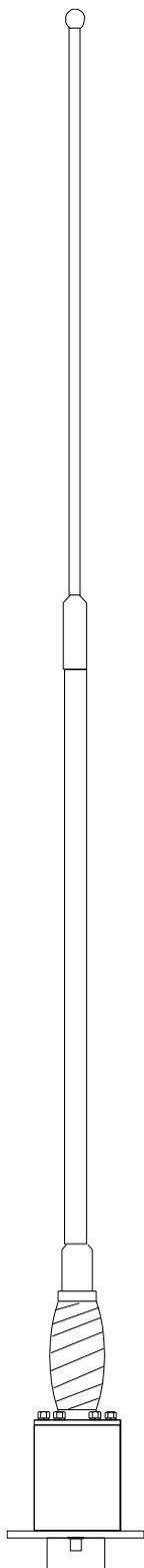
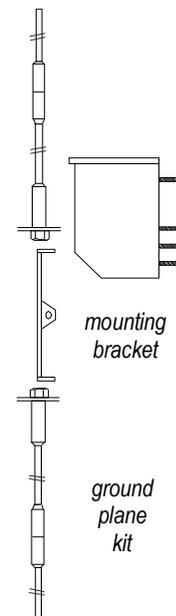
Broadband VHF Tactical Military Land Mobile Antenna System

A rugged broadband end fed dipole antenna designed to provide high performance wideband communications from 30 to 88 MHz in the military tactical environment with minimum signal attenuation.

The Moonraker MW3088 is designed to withstand demanding environments experienced by military vehicles in battlefield conditions, and is also suitable for base station use. It is fully compatible with standard NATO specifications. The system works against a ground plane, that can be provided by the vehicle chassis. The design is suitable to be used with both frequency agile and fixed frequency transceivers. No matching or tuning is required. Radiation is vertically polarised and omnidirectional in the azimuth plane. Over voltage lightning protection is built in.

The antenna radiator is in two sections. Construction is from high strength composite rod fitted with a copper mesh element, fully coated and insulated with a high durability epoxy based coating highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation. Normal finish is drab olive green with other colours to order (including desert sand). The antenna base is both flexible and shock resistant, being comprised of high durability black nylon together with a heavy duty stainless steel barrel spring. It houses the integral passive matching network and provides feedthrough insulation. Fittings are of aluminium alloy.

For installations where a suitable ground plane is not available, an optional ground plane kit of 4 x 2.8 metre (9.2ft) radials can be provided. Brackets are available for vehicle and mast mounting. The ground plane is used in conjunction with the mast mounting kit. For marine mobile or base station operations we recommend our specially designed ground independent type MMD3088.



Specifications

Frequency Range	30-88 MHz.
Overall Length	2638mm (8.65ft) approx.
Radiator Diameter	Top section 10mm (0.4in) tapering to 20mm (0.8 in); bottom section 20mm (0.8 in)
Base Diameter	90mm (3.5 in)
Impedance	50Ω nominal
Power Capability	100W CW
Gain (approx)	-5 dBi at 30 MHz, +1.0 dBi at 88 MHz
VSWR	<3.5:1
Pattern	Omnidirectional
Polarisation	Vertical Linear
Connector	Standard type BNC female; other types to order
Mounting	NATO standard base mounting assembly: 140mm dia flange with 4 x 11mm holes drilled on 114.3mm dia pitch circle. Incorporates s/steel barrel spring. 3/8 in stainless steel mounting bolts provided.
Mounting Brackets (option)	Dimensions: 220 (h) x 150 (w) x 150 (d) mm (8.7 x 5.9 x 5.9 in) Mast Mount: 2 x 1/4 in x 2 1/2 in dia U bolts (supplied); Vehicle Mount:: 8 x 8mm bolts (not supplied)