

Type MMD30100

Broadband Marine Dipole Antenna for VHF communications

The MMD30100 is a rugged, tactical dipole system, designed to provide wideband omnidirectional transmit and receive communications over the 30-100 MHz VHF band.

Radiation is vertically polarised and is omnidirectional in the azimuth plane providing excellent communications with minimum signal attenuation.

Construction is lightweight yet extremely rugged, being designed to meet military standards for humidity (810E, Procedure III), vibration (167-1 Type 1) and shock (901-1 Grade A). This ensures a high degree of strength ensuring a long operational life.

Both the antenna elements and base flange are of aluminium, the elements being encapsulated within a heavy duty fibreglass radome which isolates them from the environment to minimise problems associated with static discharge. The system is fully marinised, being finished with a high durability coating, highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation. Standard colour is navy silver grey with other colours to order.

Specifications

Frequency Range	30-100 MHz.
Overall Length (approx)	2.82 metres (9.25 ft)
Radiator Diameter	140mm (5.5 in)
Base Diameter	216mm (8.5 in)
Impedance	50Ω nominal
Power Capability	500W CW; 1kW PEP
Gain	0dBi
VSWR	2.5:1 maximum
Pattern	Omnidirectional in azimuth plane
Polarisation	Vertical
Wind Survival	Designed to withstand wind velocities of 192 km/h (120 mph) no ice
Temperature	-50 to +65°C (-60 to +150°F)
Connector	N type
Mounting	Aluminium flange base with 8 equally spaced 14mm (0.562 in) holes on 184mm (7.25 in) circle
Weight	16.8kg (37 lbs); packed 38kg (83.6 lbs)

Specifications subject to change 03/12

