Type MMD30180

Multiband Marine Dipole System for VHF communications

An extended range version of the type MMD30108, the type MMD30180 is a rugged, tactical dipole system, designed to provide multiband omnidirectional transmit and receive communications over a wide frequency range from 30 to 180 MHz, taking in the VHF band (30-88 MHz), civil air band (118-137 MHz) and marine band (156-164 MHz).

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

Construction is lightweight yet extremely rugged, being designed to meet military standards for humidity (81-E, 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.

The antenna elements are encapsulated within a heavy duty fibreglass radome which insolates them from the environment to minimise problems associated with static discharge. The antenna has an aluminium base flange for ease of mounting with connection underneath. 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	30-180 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	3.5:1 maximum; typically better than 2:1
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 184.15mm (7.25 in) circle
Weight	16.8kg (37 lbs); packed 38kg (83.6 lbs)

Specifications subject to change 06/06