



MOONRAKER Type MD

For marine or land communications in the VHF Band

A half wave dipole radiator, designed to give efficient VHF performance in both the transmit and receive modes.

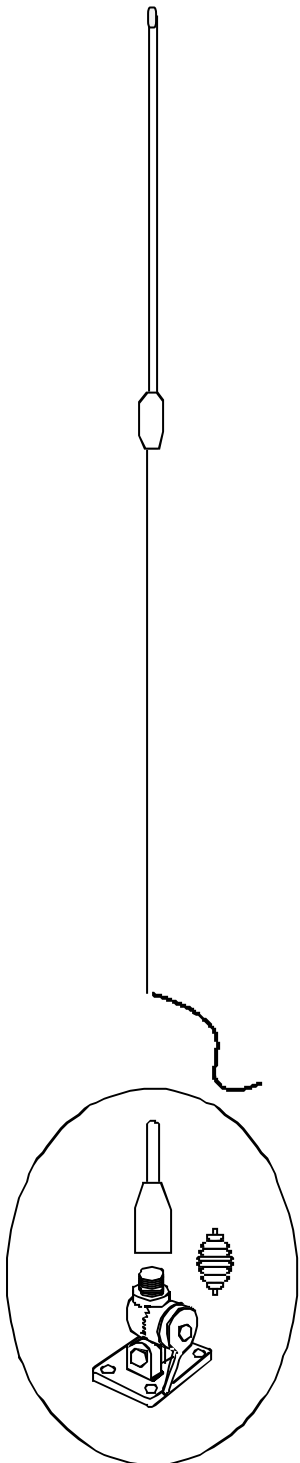
The MD is lightweight, unobtrusive and easily mounted, being constructed of marine grade, low corrosion, tempered aluminium tubing. The radiator is completely coated with black (option of white) PVC to provide maximum protection from the marine environment, ultra-violet radiation and precipitation static. The mounting tube is epoxy base coated. All metal parts are at DC earth potential for static discharge and fittings are of nylon and stainless steel.

Mounting may be effected either by two nylon clamp type insulators, 12 mm metric bolt, or by a swingdown mount with base adapter. Other methods, such as stainless steel hose clamps, may be used provided that the mounting tube is not damaged. A stainless steel spring mount is also available as an option for landing barges and vessels negotiating overhanging branches in small rivers and creeks.

It may be supplied tuned to any frequency in the VHF High or Low/Mid Bands. If required for marine use, it is normally supplied resonant at 156.8 MHz (Channel 16). A collapsible portable version is also available on special order for emergency services (type MD Portable).

Specifications

VHF Band	High Band: 146-180 MHz	Low/Mid Band: 40-145 MHz
Overall Length	1.59metres (5.48 ft), approx	2.54 metres (8.3 ft), approx
Radiator Length	0.9 metres (3 ft), approx	1.73 metres (5.6 ft), approx
Radiator Diameter	12.7mm (0.5 in)	12.7mm (0.5 in)
Mounting Tube Length	0.53 metres (1.75ft)	
Mounting Tube Dia	23mm (0.88 in)	
Pattern	Omnidirectional, maximum radiation 90° to radiator	
Polarisation	Vertical	
Frequency Range	Pretuned to specified VHF band frequency. Normally 156.8 MHz (Channel 16) or 77 MHz. Other frequencies to order.	
Bandwidth	7 MHz	
VSWR	Better than 1.2:1 at centre frequency	
Gain	2.2 dBi	
Impedance	50Ω nominal	
Wind Loading	1.64 kg at 100 km/h (3.6 lbs at 60 mph); 3 kg at 130 km/h (6.6 lbs at 81 mph)	2.3 kg at 100 km/h (5 lbs at 60 mph); 4.17 kg at 130 km/h (9.2 lbs at 81 mph)
Power Capability	80 watts	
Mountings	Either: two 63 mm (2.5 in) nylon clamp type insulators, 35 mm diameter (1 3/8 in), threaded to take M10 set screw ; stainless steel swingdown mount (1" thread) adjustable in both planes; or 12mm metric bolt (not supplied)	
Connection	5 metres RG58 co-axial cable with PL259 (UHF) plug, UHF or N Type female connector fitted in base of mounting tube (specify)	
Packed Weight	2 kg (4.4 lbs)	



Mounting options

Specifications subject to change 02/05

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