

HM208, HM212 & HM215

Omnidirectional deck mount vertical radiator

Marine Radio or HF 2-22 MHz

The HM212 and HM215 fold down collinears are designed for HF marine communications, on either a vessel or structure/tower.

This antenna is designed to couple with transmitters via an Antenna Tuning Unit (A.T.U.). Customers should verify with their supplier whether their A.T.U. specification will load the given length of radiator for this antenna at the lowest frequency required.

Mounting hardware, water-proofing, bird-proofing and other installation accessories are all available separately.

	HM208	HM212	HM215
Construction	White fibreglass radome, chrome ferrule and 316 stainless steel fold down mount base		
Frequency range	2-22 MHz - HF		
Tuning	Field tuning using suitable Automatic Tuning Unit (A.T.U.)		
Gain	2.1 dBi		
Maximum power	250 Watts PEP		
Impedance - nominal	An A.T.U. is required to match to 50 Ohms		
Polarisation	Vertical		
H Plane	360° omnidirectional		
Cable	5.0 metres 20kV single core cable - side exit from ferrule		
Height - including mount	2.4 metres	3.7 metres	4.5 metres
Weight - including mount	3.0kg	3.3kg	3.5kg
Mounting hardware	MM2 - 316 stainless steel fold-down mount supplied		
Alternate mounting order separate	MMA-SS - mast mount adaptor for tower/mast mounting using 2 x EB1-SS or UB3-SS - consult ZCG		
Mounting position recommended	Mount as high on your vessel/structure or tower as possible ensuring no obstructions.		
Installation tools required	Flat head screw driver and 14mm and 16mm spanners for fold-down mount securing		

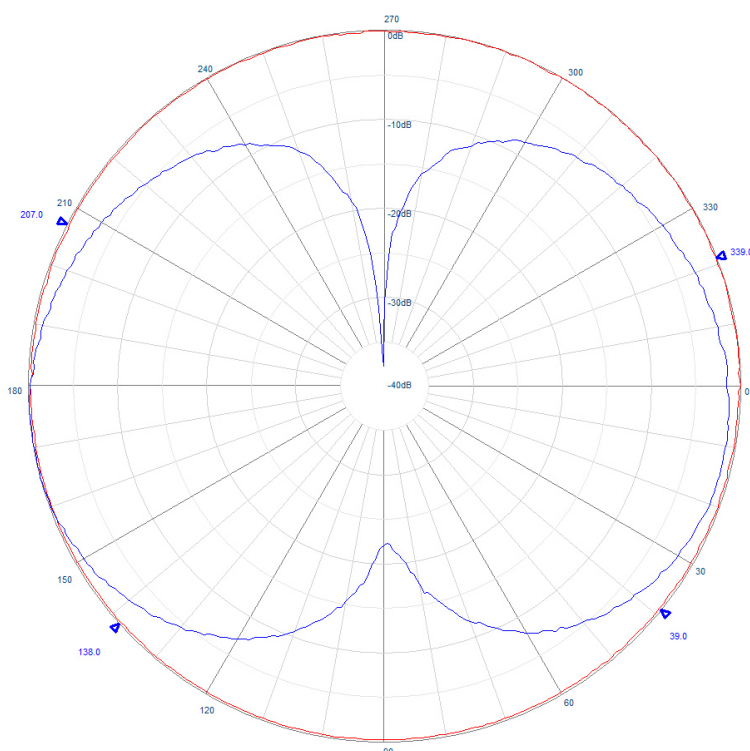


MM2 316 stainless steel dual axis fold down base included

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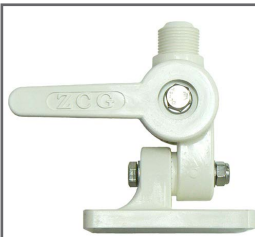
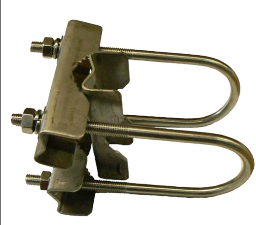
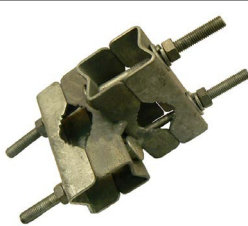
Example radiation pattern

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Alternate mounting hardware

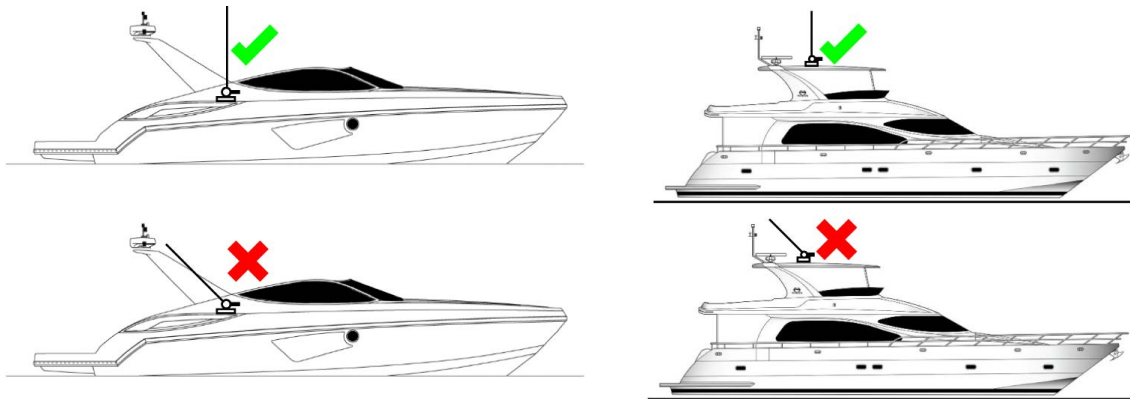
 MM1 toughened white nylon dual axis fold down mount Requires mounting screws/ bolts and mounting hardware for antenna	 MM2-B black finish 316 stainless steel dual axis fold down mount Requires mounting screws/ bolts and mounting hardware for antenna
 MMA series - anodised aluminium mast mount adaptor 250-1200mm Requires mounting hardware EB1-SS or UB2-SS	 MMA-SS - 304 stainless steel mast mount adaptor 250mm Requires mounting hardware EB1-SS or UB2-SS
 CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres. Requires mounting screws/ bolts and mounting hardware for antenna	 SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting Requires mounting screws/ bolts and mounting hardware for antenna
 A-2654-2 - aluminium extension pole 1.1 metres includes 2 x 48mm U-bolts Requires antenna mounting hardware	 EB1-SS - requires 2 304 stainless steel parallel clamp Boom: 20-40mm capability Mount pole: 25-45mm capability
 UB3-SS 304 stainless steel parallel clamp Boom: 20-32mm capability Mount pole: 20-50mm capability	 UB2-SS 304 stainless steel right-angle clamp Boom: 20-50mm capability Mount pole: 20-50mm capability
 RB8 Galvanised steel right-angle clamp Boom: 20-50mm capability Mount pole: 20-50mm capability	

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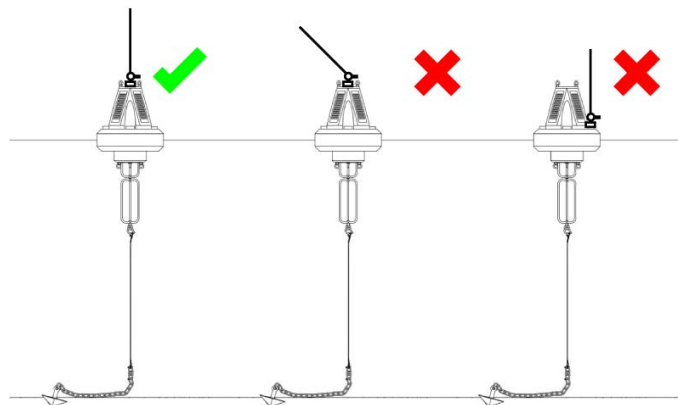
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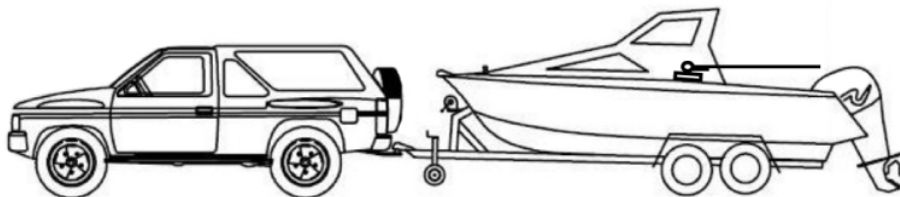
Recommended Installation orientation



Recommended Installation orientation - Buoy location



Recommended transportation orientation



ZCG recommend leaning/tilting the antenna down to parallel to the ground to eliminate any possible contact with overhead obstructions such as trees, overhead powerlines, entrance ways, roller doors or roof beams. Contact with obstructions will cause damage to your antenna or mounting surface.