



HM218-M & HM223-M

2-piece mast mount omnidirectional vertical radiators

Marine HF 2-30 MHz



The HM218-M and HM223-M are suitable for all HF marine communications within the 2-30MHz range. These antennas offer top performance together with a two-piece construction enabling easy dismantling and reduced storage area required. This antenna is designed to couple with transmitters via an Antenna Tuning Unit (A.T.U.). Please check whether A.T.U. specification will load the given length of radiator for this antenna at your lowest frequency required.

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

	HM218-M	HM223-M
Construction	Two-piece white radome, chrome joining ferrule and 304 stainless steel mounting section	
Frequency range	Marine HF 2-30MHz - <u>using suitable A.T.U.</u>	
Tuning	Field tuning using A.T.U.	
Gain	2.1 dBi	
Maximum power	500 Watts P.E.P.	1,400 Watts P.E.P.
Impedance - nominal	An A.T.U. is required to match to 50 Ohms	
Polarisation	Vertical	
Cable	6 metres 20kV single core cable	
Termination	Stainless steel termination lug 25mm x 25mm	
Height - assembled:	6.0 metres	8.1 metres
Height - packed:	3.5 metres	4.3 metres
Weight	3.0kg	8.0kg
Projected area	0.136m ²	0.215m ²
Wind load at 160kph	16.46kg, 0.163kN	25.99kg, 0.255kN
Mount section	600mm x 38mm	840mm x 50mm
Mast mounting order separate	Parallel: 2 x UAM180L or 2 x UAM180UNI Right-angle: 2 x UAM90L or 2 x UAM90UNI	
Side/wall mounting order separate	2 x NSM-218	2 x NSM-223
Mounting position recommended	Mount as high on your vessel or structure as possible using appropriate mounting hardware. Ensure no obstructions around antenna.	
Installation tools required	HM218-M: 16mm spanner for sectional securing HM223-M: 32mm spanner for sectional securing	



HM223-M assembled

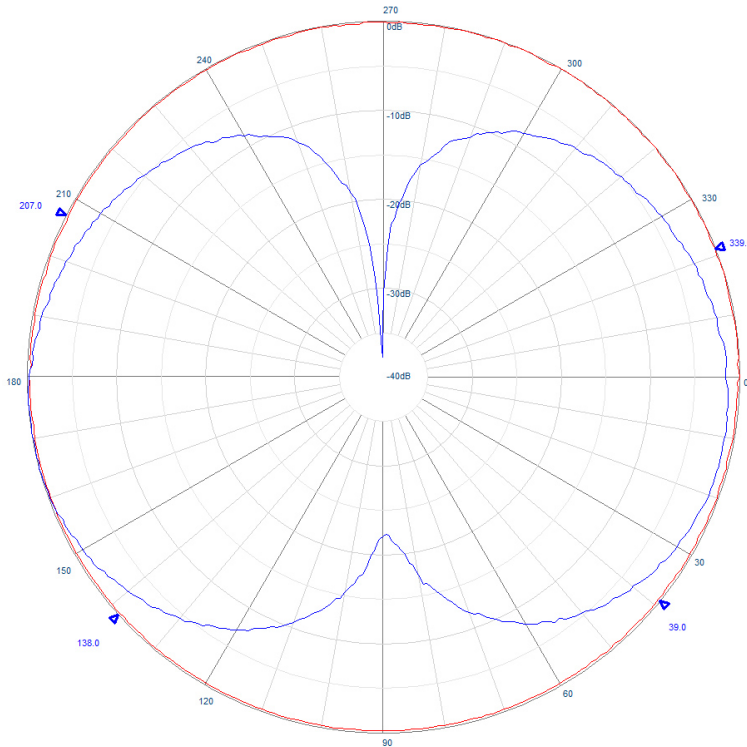
HM223-M dis-assembled



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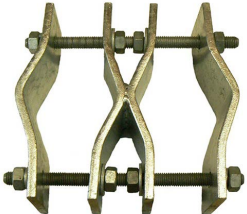
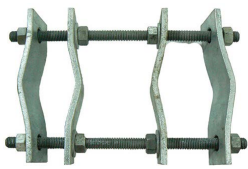

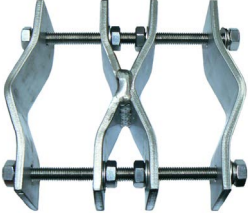
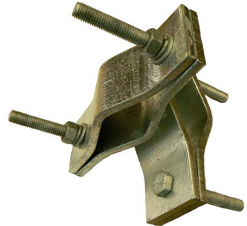
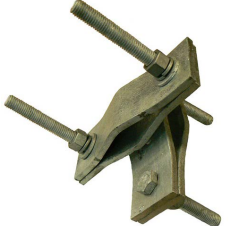
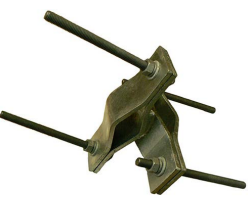


Example radiation pattern

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Suitable mounting hardware

	<p>UAM180L Galvanised steel heavy-duty parallel clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>		<p>UAM180UNI Galvanised steel large heavy-duty parallel clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>
	<p>UAM180UNIL Galvanised steel extra large heavy-duty parallel clamp Boom: 40-90mm capability Mount pole: 60-115mm capability</p>		<p>UAM180L-SS316 316 grade stainless steel large heavy-duty parallel clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>
	<p>UAM90L Galvanised steel heavy-duty right-angle clamp Boom: 40-75mm capability Mount pole: 40-75mm capability</p>		<p>UAM90UNI Galvanised steel large heavy-duty right-angle clamp Boom: 40-70mm capability Mount pole: 40-90mm capability</p>
		<p>UAM90LL Galvanised steel extra large heavy-duty right-angle clamp Boom: 60-115mm capability Mount pole: 60-115mm capability</p>	
	<p>NSM-218 Toughened nylon wall/side mount Boom: 38mm Mount hole: 16mm</p>		<p>NSM-223 Toughened nylon wall/side mount Boom: 50mm Mount hole: 16mm</p>