



M55SS-MIL

Ruggedised omnidirectional monocone with enclosed termination VHF Air Band 118-137 MHz



Designed and manufactured for naval and land base military applications, the M55SS-MIL is suited for mounting to either a naval vessel, vehicle or structure. With an omni-directional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with centre-fed dipoles.

Mounting hardware, coaxial feeder cables, connectors and other installation accessories are all available separately.

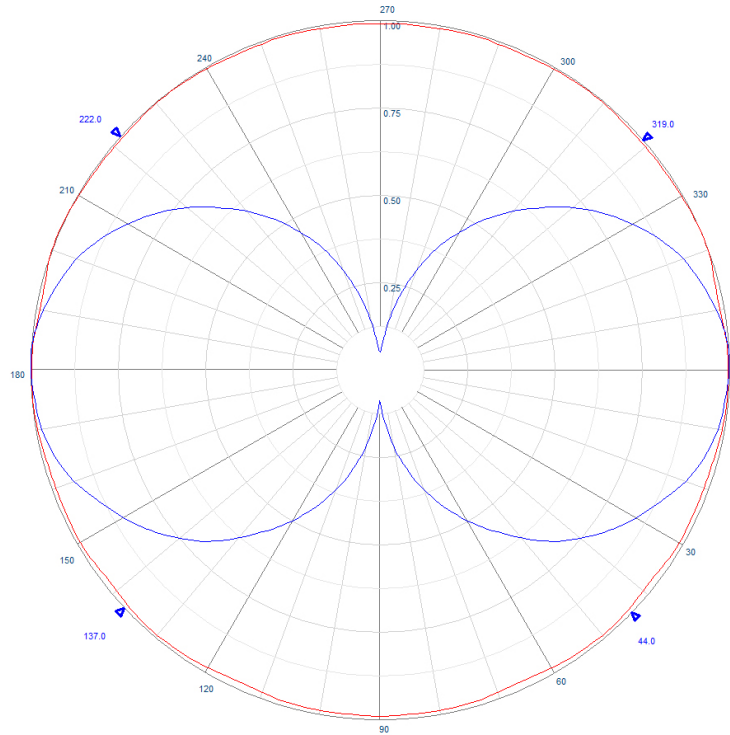
| | |
|----------------------------------|---|
| Construction | Grey radome, 316 grade stainless steel radials and 316 stainless steel mount section |
| Frequency | 118-137 MHz - VHF Air Band |
| Bandwidth | Full frequency range stated - 19 MHz |
| VSWR | <1.5:1 |
| Tuning | Factory |
| Gain | 0 dBd - unity |
| Maximum power | 500 Watts |
| Impedance - nominal | 50 Ohms |
| DC grounding | Yes |
| Polarisation | Vertical |
| H Plane | 360° omnidirectional, ± 0.5 dBd |
| E Plane | 65° - vertical beamwidth |
| Connector | Weather sealed N-type female at base of mount section |
| Height | 1.7 metres |
| Weight | 4.6kg |
| Projected area | 0.076m ² |
| Wind load at 160kph | 0.09kN, 9.199kg |
| Mounting section | 38mm x 300mm - 316 stainless steel |
| Mounting hardware order separate | Parallel: 2 x UAM180L or UAM180UNI Right-angle: 2 x UAM90L or UAM90UNI Side/wall mount: 2 x NSM-218 |
| Mounting position recommended | Mount as high on your vessel, structure mast or tower as possible using the appropriate mounting clamps |
| Installation tools required | Tommy bar for radial securing included Allen key for radial grub screw securing included 8mm spanner for weatherproof cover securing 24mm spanner for cable gland tightening |



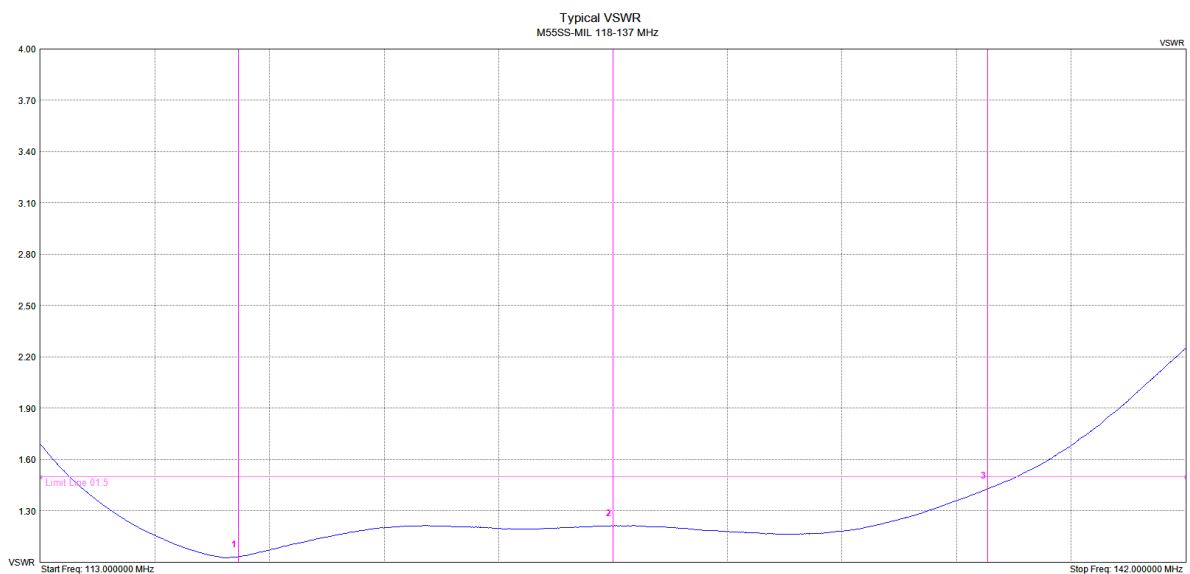


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Example radiation pattern



| MHz | Ref | Delta | Ref Freq | Ref Amp | Delta Freq | Delta Amp |
|-----|--------------------------|--------------------------|-------------|-----------|------------|-----------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 118.000 MHz | 1.03 VSWR | -- | -- |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | 127.500 MHz | 1.21 VSWR | -- | -- |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | 137.000 MHz | 1.43 VSWR | -- | -- |
| 4 | <input type="checkbox"/> | <input type="checkbox"/> | -- | -- | -- | -- |

Typical VSWR




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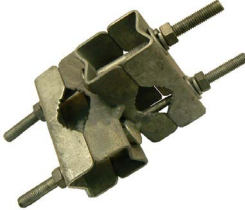
Suitable mounting hardware



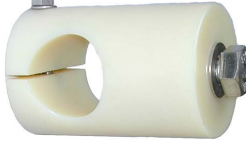
SKU: EB1-SS
2 units recommended
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



SKU: UB2-SS
304 stainless steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability



SKU: RB8
2 units recommended
Galvanised steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability



SKU: NSM-218
2 units recommended
Toughened nylon wall/side clamp mount
38mm capability

Suitable feeder coaxial cable and connectors



SKU: 7800
RG213 stranded core, solid PE dielectric coaxial cable
Available in 100m, 300m roll or alternatively request a custom cable assembly



SKU: NM-7937
N-type male crimp connector for RG213 stranded core, solid PE dielectric coaxial cable
Tri-metal plated



SKU: 7890
RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)
SKU: 7890-3 - RU400-UF ultra flexible
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



SKU: NM-8226
N-type male crimp connector for RU400 low loss, solid conductor
Tri-metal plated



SKU: 7890-2
RU600 Solid copper conductor, low loss coaxial cable
CNT-600 / LMR-600™ equivalent
(* times microwave)
Available in 500m roll or alternatively request a custom cable assembly



SKU: NM-8226-2
N-type male crimp connector for RU600 low loss, solid conductor
Tri-metal plated



SKU: ZCG1250
1/2" corrugated shielding, foam dielectric coaxial cable
SKU: ZCG1250-A Air-dielectric
Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250
N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
Tri-metal plated