

Application

AV7M is a high quality dipole antenna designed for the marine VHF radio telephone service. It is a high quality antenna with a durable construction and a beautiful finish for installation on all kinds of vessels.

Electrical specification

| | |
|-------------------|---|
| Frequency range | 156-162 MHz, VSWR < 1.5:1 145-165 MHz, VSWR < 2:1 |
| Nominal impedance | 50 ohm |
| Power rating | 100 W |
| Gain | 2 dbi |
| Pattern | Horizontal plane: Omnidirectional Vertical plane: See reverse page |
| Polarization | Vertical |
| Connector | UHF female is standard |
| DC-grounded | Yes |

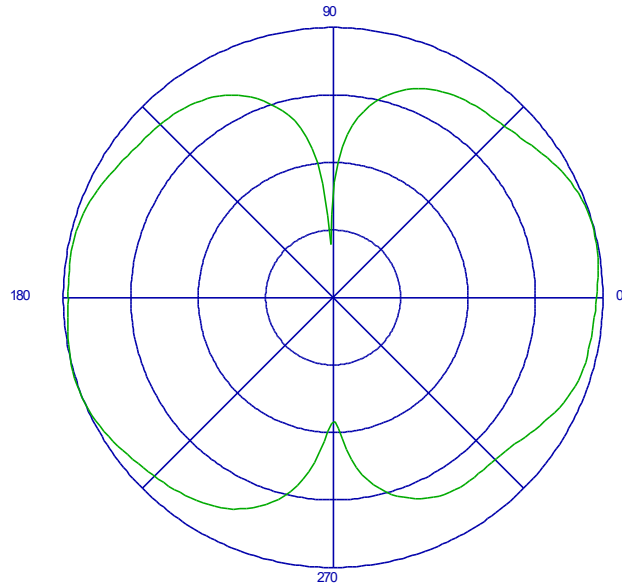
Mechanical specification

| | |
|-------------------|---|
| Design | Centre-fed coaxial dipole. Radiating elements completely enclosed in polyurethane foam within a fibreglass tube. Mounting bracket in aluminium. |
| Height | 1.25 m (4 ft) |
| Weight | 1 kg, including U-bolts |
| Wind rating | 55 m/s = 125 mph |
| Finish | Polyurethane lacquer, white |
| Temperature range | -55 °C, +71 °C; -67 °F, +160 °F |
| Water Proofing | IP67 |

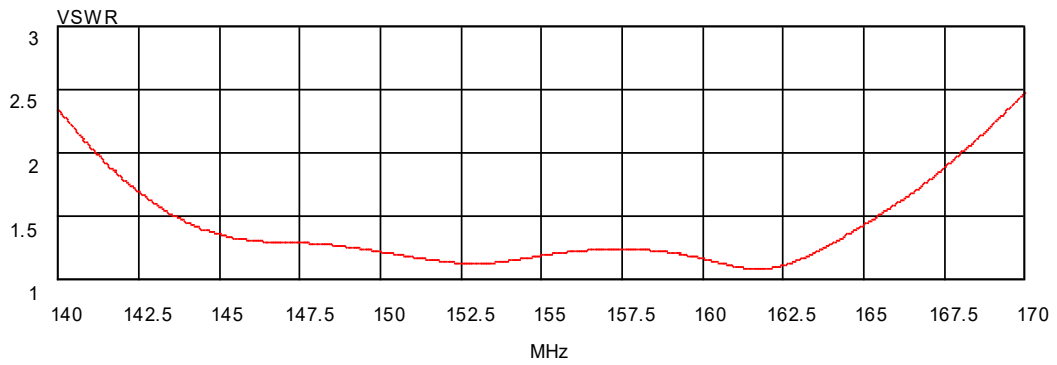
Mounting

AV7 can be mounted directly onto the bulkhead by means of 4 holes in the aluminium bracket. It can also be attached to a mast or tube using the supplied M6 stainless steel U-bolts. The mounting tube can be horizontal or vertical.

Suitable cable: RG8, RG213 or similar.



Vertical Radiation Pattern
 $f=160\text{MHz}$
 40 dB dynamic range, 10dB/div



Standing Wave Ratio