

Model CELL 918 MARINER

Marine Dual-Band Antenna (GSM, DCS, DECT, UMTS)

Installation Manual

DESCRIPTION

Dual-band marine antenna conceived for CELLULAR systems working on GSM 900 & 1800 MHz, DCS 1.9, DECT and UMTS. All metallic components are made of chromium plated brass and stainless steel to improve its strength. It's inserted in a glass fibre tube for a perfect protection against the worst sea climates. It can be supplied with the following fixing mounts: "M-3" adjustable mount of chromium plated brass, "M-8" adjustable mount of white nylon and "M-10" adjustable mount of chromed plated brass.

SPECIFICATIONS

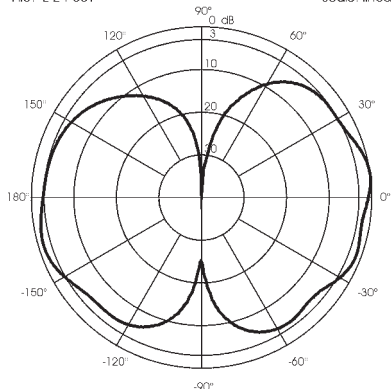
Electrical Data

| | | |
|-------------------------|---|------------------------------|
| Type | : | Dipole |
| Frequency Range | : | 880-960 MHz 1710-2170 MHz |
| Impedance | : | 50 Ω Unbalanced |
| Polarization | : | Linear Vertical |
| Gain | : | 0 dBd - 2.15 dBi both band |
| 3 dB Beamwidth Vertical | : | E-plane 50° |
| Beamwidth Horizontal | : | H-plane 360° Omnidirectional |
| Downtilt | : | 0° |
| V.S.W.R. in bandwidth | : | $\leq 2.0:1$ |
| Max Power | : | 20 Watts |
| Feed System / Position | : | Direct / Base |
| Cable Type / Length | : | RG 58 / 5 m |
| Connector Type | : | FME female |

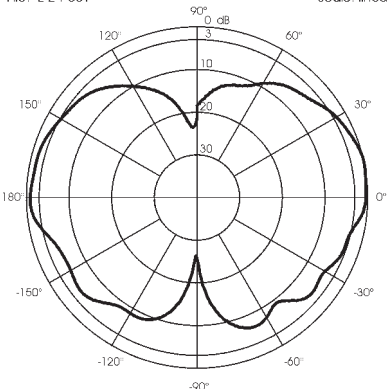
Mechanical Data

| | | |
|-----------------------|---|--------------------|
| Housing Materials | : | Chromed Brass, PCB |
| Radome Material | : | White Fibreglass |
| Height (approx.) | : | 335 mm |
| Weight (approx.) | : | 470 gr |
| Operating Temperature | : | -20° C to 80° C |

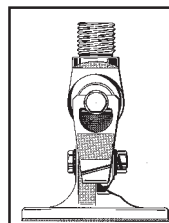
TYPICAL RADIATION PATTERN in E-plane at 920 MHz
File: E-24-001 Scale: linear



TYPICAL RADIATION PATTERN in E-plane at 1710 MHz
File: E-24-001 Scale: linear

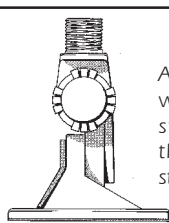


OPTIONAL MOUNTING BASES



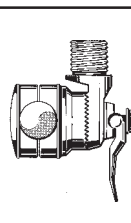
M-3 OT Marine Mount

Adjustable marine mount of chromed brass with standard connection 1"x14 threads. It's supplied with rubber washer and stainless steel screws.



M-8 NY Marine Mount

Adjustable marine mount of white nylon, supplied with standard connection 1"x14 threads, rubber washer and stainless steel screws.



M-10 OT Marine Mount

Adjustable marine mount made of chromium plated brass and supplied with standard connection 1"x14 threads. Stainless steel screws, fixing diameter 1".