

Sturdy, 0 dBd, Omnidirectional lightning protected Base Station Antenna for the 144 - 175 MHz Bands

DESCRIPTION

- CXL 2-1HD-PT is 0 dBd, vertically polarized, omnidirectional base station antenna for the entire 2 m band.
- The antenna has been approved to withstand lightning (10/350 µs impulses/150 kA) according to EN 62305-1.
- The antenna is provided with our sturdy type “HD” mast mount - a heavy-duty, multipurpose mounting bracket made of non-corrosive aluminium. The accompanying U-bolts and fittings are made of stainless steel.
- The antenna can be mounted on mast tubes of 58 to 105 mm in outer diameter. Furthermore, the construction of the mount makes it possible to lead the cable either along the inside or on the outside of the mast tube.
- The antenna element is sealed in a high-quality, conical glass fibre tube with low wind load, ensuring undisturbed performance in all climates.
- To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- Also available with UHF connector.
- Grounding conductors is to be chosen in accordance with IEC 62305-3.



SPECIFICATIONS

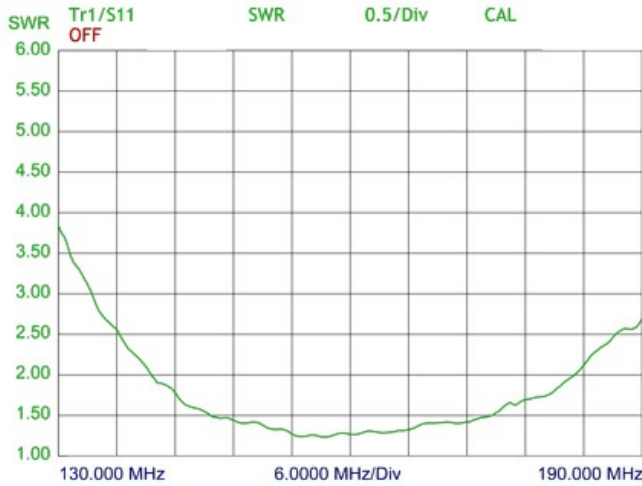
| Electrical | |
|-------------------------|---|
| Model | CXL 2-1HD-PT |
| Frequency | 144 - 175 MHz |
| Antenna Type | Coaxial dipole, broad-banded |
| Max. Input Power | 150 W |
| Polarisation | Vertical |
| 3 dB Beamwidth, E-Plane | 80 ° |
| 3 dB Beamwidth, H-Plane | Omnidirectional |
| Impedance | 50 Ω |
| Gain | 0 dBd (2.2 dBi) |
| VSWR | < 1.75:1 |
| Lightning Protection | 150 kA (Test pulse 10/350 µs) |
| Antistatic Protection | All metal parts DC-grounded (Connector shows a DC-short) |
| HCM Code(s) | HCM000ND00, 040DE00 |
| Mechanical | |
| Connection(s) | N(f) |
| Materials | Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated |
| Colour | White (RAL 9003) |
| Wind Area | 0.077 sq. m / 0.83 sq. ft |
| Wind Load | 90 N (160 km/h) |
| Height | Approx. 1500 mm / 59.06 in. |
| Weight | Approx. 5.8 kg / 12.79 lb. |
| Mounting | On 58 - 105 mm dia. mast tube |

| Environmental | |
|-----------------------------|------------------|
| Operating temperature range | -30 °C to +70 °C |
| Survival Wind Speed | 200 km/h |

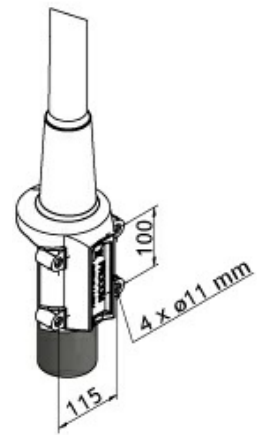
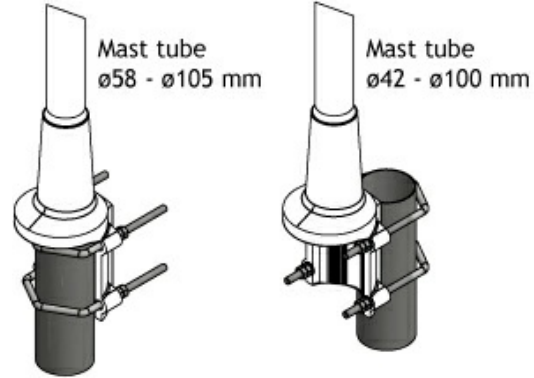
ORDERING

| Model | Product No. | Frequency |
|------------------|-------------|---------------|
| CXL 2-1HD-PT | 100000515 | 144 - 175 MHz |
| CXL 2-1HD-PT UHF | 100000531 | 144 - 175 MHz |

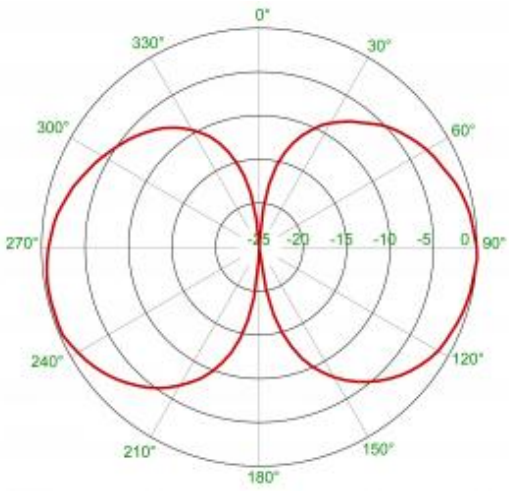
TYPICAL VSWR CURVE



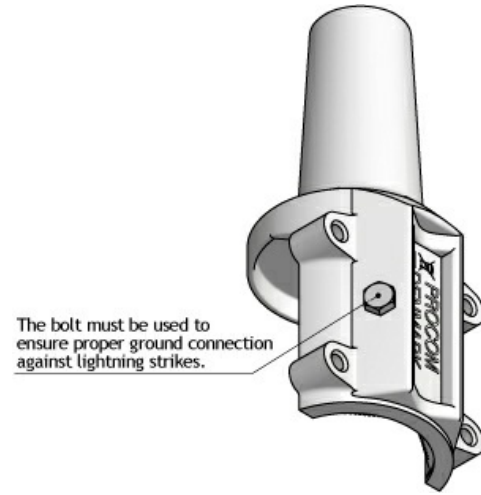
MULTI-PURPOSE MOUNTING BRACKET



TYPICAL RADIATION PATTERN (E-PLANE)



MOUNTING DETAILS



TYPICAL RADIATION PATTERN (H-PLANE)

