0 dBd Broad-Band Base Station and Marine Antenna for the 470 - 870 MHz Band

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 0 dBd gain.
- Simple mounting using the 1" revolving nut system.
- Wide variety of accessory mounting brackets available.
- Large bandwidth (470 - 870 MHz) with respect to both SWR and gain.
- The antenna element is sealed in a high-quality, conical glass-fibre tube.
- The CXL 470-870 is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.
- The CXL 470-870 is designed specially for both digital and analog communication systems.

ORDERING

Type	Product No.
CXL 470-870	100000226

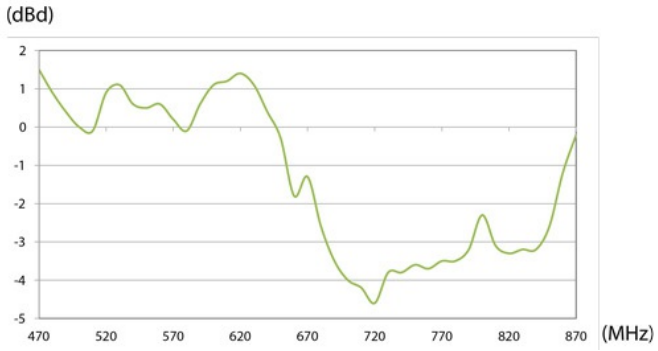
SPECIFICATIONS

Electrical	
Model	CXL 470-870
Frequency	470 - 870 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	2 dBi 0 dBd (see Gain Curve)
VSWR	≤ 2.5:1
HCM Code(s)	HCM000ND00, 020DE00

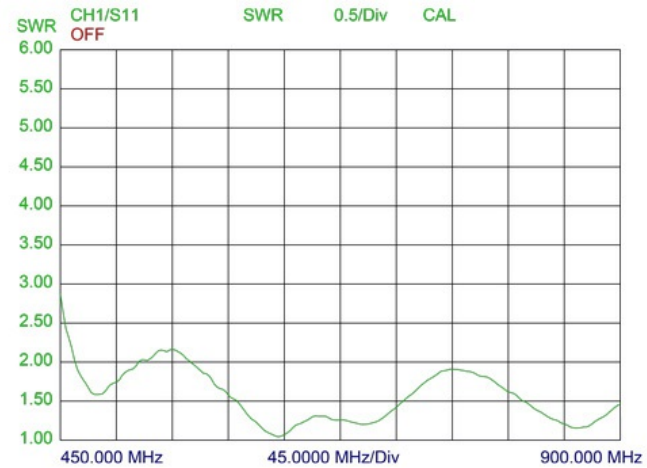
Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.013 sq. m / 0.14 sq. ft
Wind Load	20 N (160km/h)
Dia. At Top End	22.5 mm / 0.89 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	Approx. 600 mm / 23.62 in.
Weight	Approx. 0.35 kg / 0.77 lb
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)

Environmental	
Operating Temperature Range	-30°C to +70°C
Survival Wind Speed	200 km/h

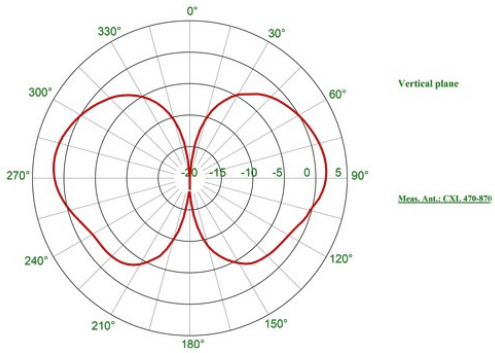
Typical Gain Curve



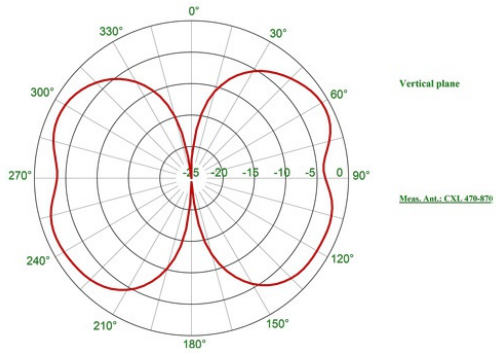
Typical SWR Curve



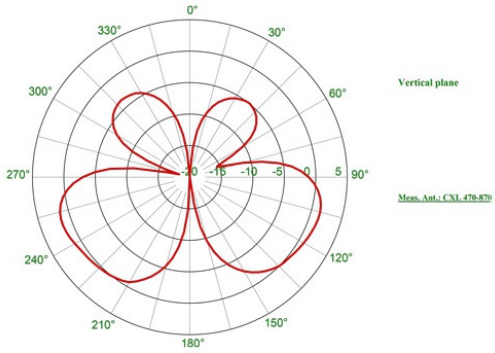
Typical Radiation Pattern (E-Plane) 470 MHz



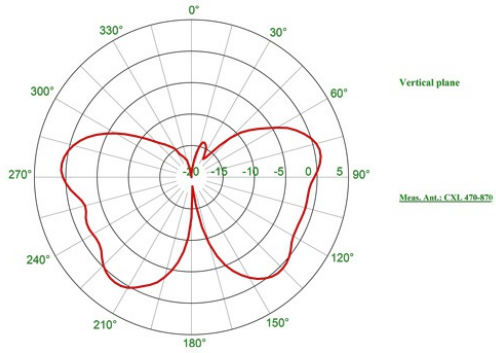
Typical Radiation Pattern (E-Plane) 770 MHz



Typical Radiation Pattern (E-Plane) 670 MHz



Typical Radiation Pattern (E-Plane) 870 MHz



Accessories (to be ordered separately)