Unity-Gain, Omnidirectional Base Station and Marine Antenna for the 450 MHz Band. Designed for defen

DESCRIPTION

- G-CXL 70-1LW/… is a 0 dBd, vertically polarized, omnidirectional base station and marine antenna which covers the 450 MHz band in three models.
- The carefully designed, broadbanded ½ λ-dipole radiating element is made of brass tube and sealed in a high-quality conical glass fibre tube with low wind-load.
- Provided with the sturdy “LW” mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminium.
- The cable can be led either on the outside or along the inside of the mast tube.
- Large bandwidth with respect to both SWR and gain.
- To substantially reduce noise caused by atmospherical discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.

SPECIFICATIONS

Electrical	
Model	G-CXL 70-1LW/...
Frequency	380-510MHz (See ordering codes for sub-models)
Antenna Type	Coaxial dipole, broad-banded
Max. Input Power	200 W
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 1.5:1
Bandwidth	50 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 040DE00

Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
Colour	Green (RAL 6014)
Wind Area	0.0192 sq. m / 0.21 sq. ft
Wind Load	24 N (160km/h)
Dia. At Top End	12 mm / 0.47 in.
Dia. At Bottom End	16 mm / 0.63 in.
Height	680 mm / 26.77 in.
Weight	0.65 kg / 1.43 lb
Mounting	On 16 to 54 mm dia. mast tube

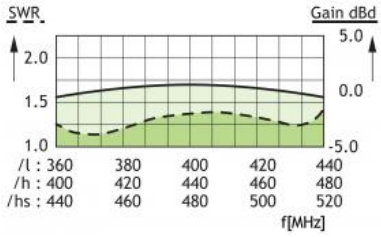
Environmental	
Operating Temperature Range	-35°C to +70°C
Survival Wind Speed	200 km/h
Ingress Protection	IP66

ORDERING

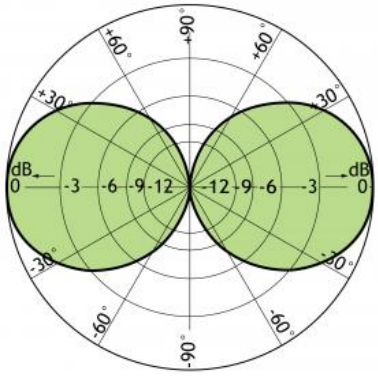
Type	Product No.	Frequency
G-CXL 70-1LW/l	100000269	380 - 430 MHz
G-CXL 70-1LW/h	100000270	420 - 470 MHz
G-CXL 70-1LW/hs	100000271	460 - 510 MHz

DIAGRAM

TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)