

Universal, Unity-Gain Base Station and Marine Antenna for the 160 MHz Band. Designed for defense uni

DESCRIPTION

- This multi-purpose, omnidirectional, 0 dBd, rod-type base station and marine antenna covers the 160 MHz band in two models with 10 MHz overlap and can be used in a wide variety of applications.
- The broad-banded $\frac{1}{2} \lambda$ dipole antenna element is sealed in a high-quality conical glass fibre tube with low wind-load, which will ensure undisturbed performance by corrosive environments.
- 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.
- G-CXL 2-1LW/... is DC-grounded to substantially reduce noise caused by atmospherical discharges and consequently shows a DC-short across the coaxial cable.

SPECIFICATIONS

Electrical	
Model	G-CXL 2-1LW/...
Frequency	146 - 175 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Pattern Type	Omnidirectional
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	G-CXL 2-1/l : 146 - 163 MHz ≤ 1.5:1 146 - 165 MHz ≤ 1.75:1 G-CXL 2-1/h : 156 - 174 MHz ≤ 1.5:1 155 - 175 MHz ≤ 1.75:1
Maximum Input Power	150 W
Bandwidth	20 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	

Mechanical	
Wind Area	0.019 sq. m / 0.20 sq. ft
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated Clamps: Stainless steel
Colour	Green (RAL 6014)
Height	1280 mm / 50.39 in.
Wind Load	27 N (160km/h)
Dia. At Top End	8 mm / 0.31 in.
Weight	0.76 kg / 1.68 lb
Dia. At Bottom End	16 mm / 0.63 in.
Mounting	On 16 to 54 mm dia. mast tube

Environmental	
Operating Temperature Range	-30 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP66

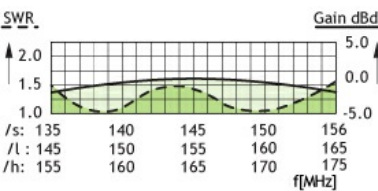
ORDERING

Type	Product No.	Frequency
G-CXL 2-1LW/l	110000185	146-165 MHz
G-CXL 2-1LW/h	110000186	155-175 MHz

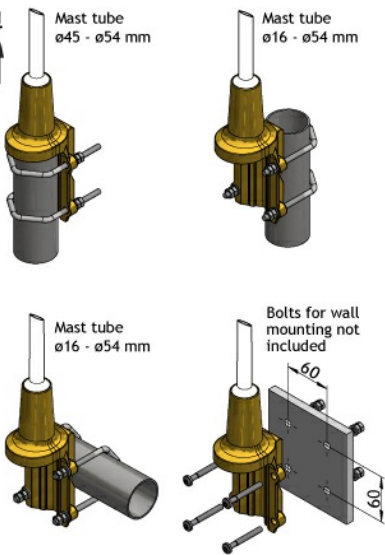


DIAGRAM

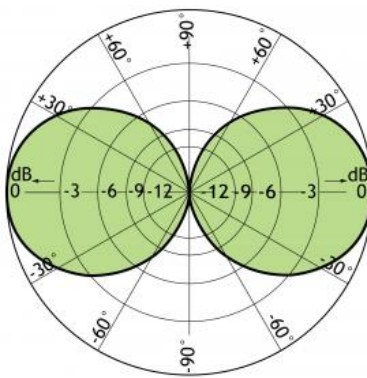
TYPICAL GAIN AND SWR CURVES



MULTI-PURPOSE MOUNTING BRACKET



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

