3 dBd Omnidirectional Base Station and Marine Antenna for the 2400 MHz Band

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 3 dBd gain
- Simple mounting using the 1" revolving nut system.
- Wide variety of accessory mounting brackets available.
- Large bandwidth with respect to both SWR and gain.
- Highly suitable for duplex operation with large spacing between the TX and the RX frequencies.
- The antenna element is sealed in a high-quality, conical glass fibre tube.
- All metal parts in the antenna are DC-grounded to reduce the noise caused by atmospherical discharge. Consequently, the antenna shows a DC-short across the coaxial cable.
- The CXL 2400-3/… is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.

ORDERING

Type	Product No.	Frequency
CXL 2400-3/II	100000586	2200 - 2300 MHz
CXL 2400-3/I	110000157	2300 - 2500 MHz
CXL 2400-3/m	110000158	2400 - 2600 MHz
CXL 2400-3/h	110000159	2500 - 2700 MHz

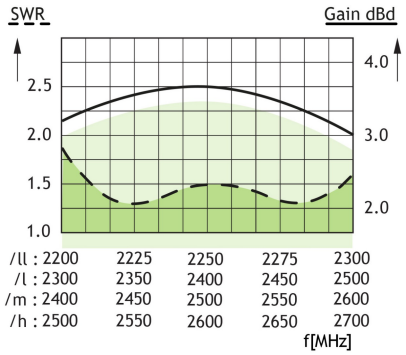
SPECIFICATIONS

Electrical	
Model	CXL 2400-3/...
Frequency	Models within 2200 - 2700 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	30 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	

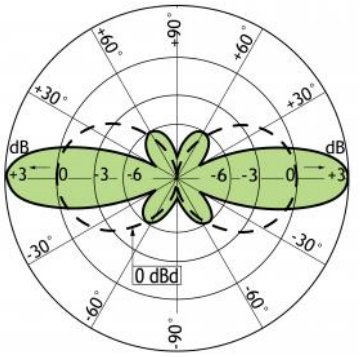
Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.01 sq. m / 0.11 sq. ft
Wind Load	13 N (160km/h)
Dia. At Top End	22 mm / 0.87 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	550 mm / 21.65 in.
Weight	0.4 kg / 0.88 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

TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

ACCESSORIES (TO BE ORDERED SEPARATELY)