

5.4 dBd Omdirectional Base Station and Marine Antenna for the 1800 MHz Band

DESCRIPTION

- Vertically polarized, omnidirectional base station and marine antenna.
- Approximately 5.4 dBd gain.
- Simple mounting using the 1" revolving nut system.
- Wide variety of accessory mounting brackets available.
- Large bandwidth with respect to both VSWR and gain. Highly suitable for duplex operation with large spacing between the Tx and the Rx frequencies, e.g. the DCS-1800/PCN cellular system.
- 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 1800-6 is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



SPECIFICATIONS

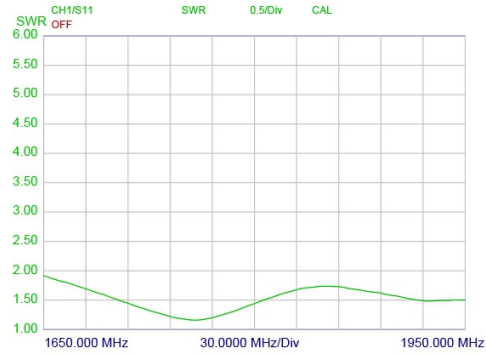
Electrical	
Model	CXL 1800-6
Frequency	1710 - 1880 MHz
Antenna Type	Collinear, broad-band
Max. Input Power	100 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	16 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	5.4 dBd (8.2 dBi)
VSWR	< 2.0:1
Bandwidth	≥ 200 MHz
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 008DE35

Mechanical	
Connection(s)	N(f)
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Wind Area	0.019 sq. m / 0.2 sq. ft
Wind Load	23 N (160km/h)
Dia. At Top End	23 mm / 0.91 in.
Dia. At Bottom End	23 mm / 0.91 in.
Height	720 mm / 28.35 in.
Weight	0.45 kg / 1.0 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
Ingress Protection	IP66

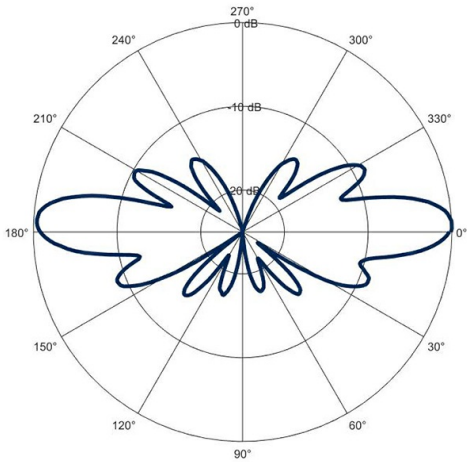
ORDERING

Model	Product No.	Frequency
CXL 1800-6	100000186	1710 - 1880 MHz

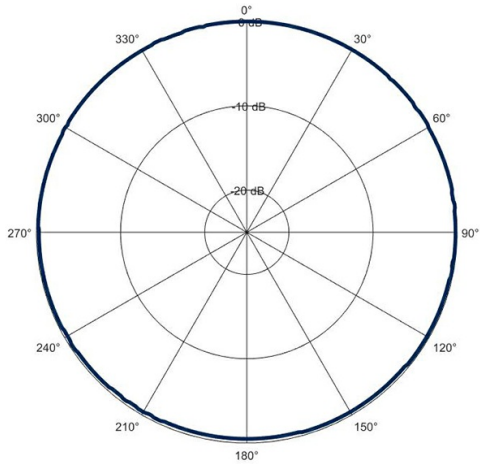
TYPICAL VSWR CURVE



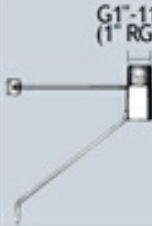
TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)



ACCESSORIES (TO BE ORDERED SEPARATELY)

FLG  G1"-11 (1" RG)	SMR 1  G1"-11 (1" RG)	SMR 2  G1"-11 (1" RG)	YA-Bracket  ø17
LW-SS-1"  G1"-11 (1" RG)	MariFix 1  1"-14 UNS ALSO NEED ADT	MariFix 2  1"-14 UNS ALSO NEED ADT	ADT  G1"-11 (1" RG) 1"-14 UNS