

Base Station and Marine DAB Antenna

DESCRIPTION

- This 0 dBd omnidirectional base station and marine antenna covers the terrestrial DAB (Digital Audio Broadcast) Band.
- The antenna is a ½ λ design and this means that it needs neither loading coils, ground-plane, radials nor other auxiliary arrangements.
- Avoid mounting the antenna parallel with and in the neighbourhood of other metal parts, such as masts, supporting wires etc. Free mounting and as high as possible is most preferable, otherwise the SWR and the radiation diagram will be influenced.
- Bear in mind that the higher the antenna is mounted the better coverage.
- Furthermore, the antenna is a grounded radiator antenna and therefore it shows a DC-short across the coaxial cable.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

SPECIFICATIONS

Electrical	
Model	CXL 230-1/DAB
Frequency	223 - 240 MHz
Antenna Type	Coaxial dipole, broad-banded
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
SWR	< 1.5:1
Maximum Input Power	150 W
Bandwidth	17 MHz
HCM Code(s)	

Mechanical	
Wind Area	0.024 sq. m / 0.26 sq. ft
Connection(s)	UHF female
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Height	1150 mm / 45.28 in.
Wind Load	30 N (160km/h)
Dia. At Top End	8 mm / 0.31 in.
Weight	0.3 kg / 0.66 lb
Dia. At Bottom End	16 mm / 0.63 in.
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

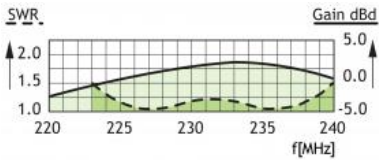
ORDERING

Type	Product No.
CXL 230-1/DAB	100000084

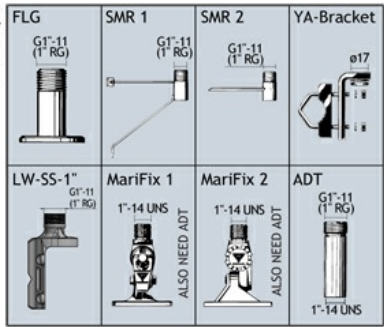


DIAGRAM

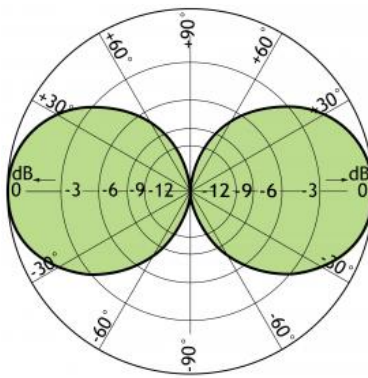
TYPICAL GAIN AND SWR CURVES



ACCESSORIES (to be ordered separately)



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

