

3 dBd Colinear Base Station and Marine DAB Antenna

DESCRIPTION

- This antenna is especially developed for the DAB (Digital Audio Broadcast) band and it is used when more gain is required than obtainable with standard $\frac{1}{2} \lambda$ dipoles.
- The higher the antenna is mounted, the better coverage. Avoid mounting the antenna parallel with or in the neighbourhood of other metal parts, such as masts, supporting wires etc. The antenna needs no ground-plane, radials nor other auxiliary arrangements.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

SPECIFICATIONS

Electrical	
Model	CXL 230-3/DAB
Frequency	223 - 240 MHz
Antenna Type	Omnidirectional coaxial collinear
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
3 dB Beamwidth, E-Plane	30 °
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
SWR	< 1.5:1
Maximum Input Power	150 W
Bandwidth	17 MHz
HCM Code(s)	

Mechanical	
Wind Area	0.0385 sq. m / 0.41 sq. ft
Connection(s)	UHF female
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass
Colour	White (RAL 9003)
Height	2000 mm / 78.74 in.
Wind Load	67 N (160km/h)
Weight	1 kg / 2.20 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

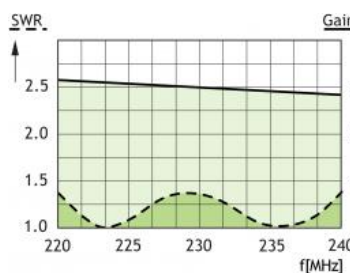
ORDERING

Type	Product No.
CXL 230-3/DAB	100000083

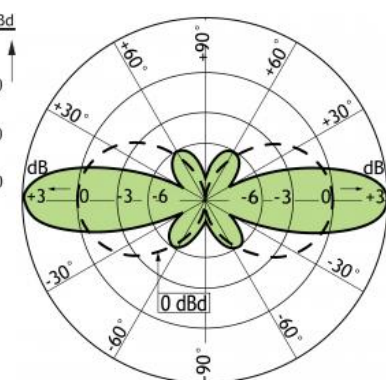


DIAGRAM

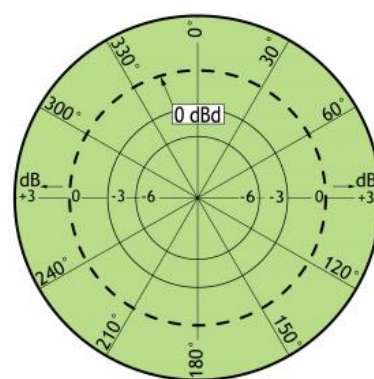
TYPICAL GAIN AND SWR CURVES



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