

CXL 23-7C/...

7 dBd Omnidirectional Base Station Antenna for the 23 cm Amateur Band

- The CXL 23-7C/... is a 7 dBd, vertically polarized, omnidirectional base station antenna, which covers 1240 – 1340 MHz in three models.
- The antenna is provided with the type “C” universal fixing bracket. The epoxy coated cast aluminium bracket and accompanying stainless steel “U” bolts are suitable for the most severe marine environment.

DESCRIPTION

- The CXL 23-7C/... is suitable for 27 – 65 mm dia. mast tubes. The coaxial feeder cable can be routed either internally or externally to the support tube.
- The antenna has excellent VSWR and gain characteristics and is highly suitable for repeater operation.
- The radiating element of the antenna is housed in a sealed high quality tapered glass fibre tube providing low wind loading and excellent all weather performance.
- The antenna is DC grounded for static discharge protection.
- The CXL 23-7C/... is a vibration-proof, slim-line, corrosion resistant, modern style base station antenna.

ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY
CXL 23-7C/l	1240 – 1270 MHz	100000173
CXL 23-7C/h	1260 – 1300 MHz	100000174
CXL 23-7C/hh	1300 - 1340 MHz	100000282



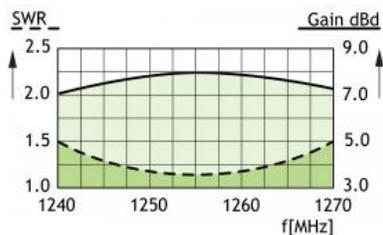
SPECIFICATION

ELECTRICAL	
MODEL	CXL 23-7C/...
ANTENNA TYPE	Collinear, broad-banded
FREQUENCY	Covering: 1240 – 1340 MHz
IMPEDANCE	Nom. 50 Ω
RADIATION	Omnidirectional
POLARIZATION	Vertical
GAIN	9 dBi 7 dBd
HALF POWER BEAMWIDTH	11°
BANDWIDTH	30 MHz for CXL 23-7C/l 40 MHz for CXL 23-7C/h 40 MHz for CXL 23-7C/hh
SWR	≤ 1.5 for CXL 23-7C/l ≤ 1.75 for CXL 23-7C/h ≤ 1.75 for CXL 23-7C/hh
MAX. POWER	100 W
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)
HCM CODE	HCM000ND00, 007DE60

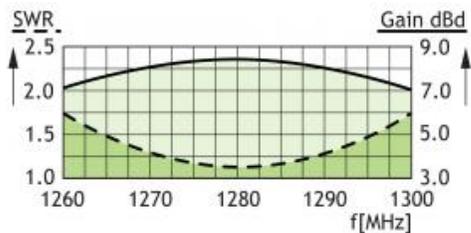
MECHANICAL	
CONNECTOR	N-female
WIND SURFACE	0.03 m ²
WIND LOAD	38 N @ 160 km/h
COLOUR	White (RAL 9003)
MATERIALS	Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, epoxy-coated
TOTAL HEIGHT	Approx. 1.5 m
WEIGHT	Approx. 1.0 kg
MOUNTING	On 27 – 65 mm dia. mast tube

TYPICAL GAIN AND SWR CURVES

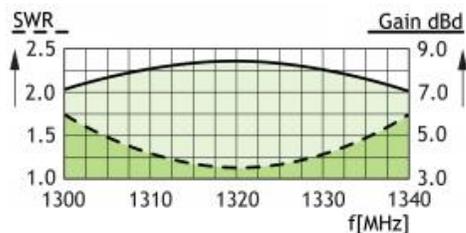
CXL 23-7C/L



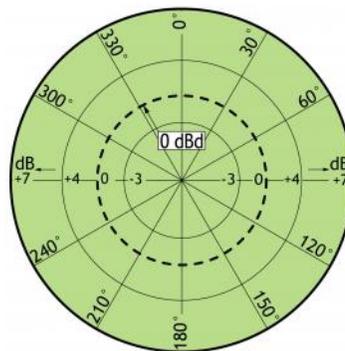
CXL 23-7C/H



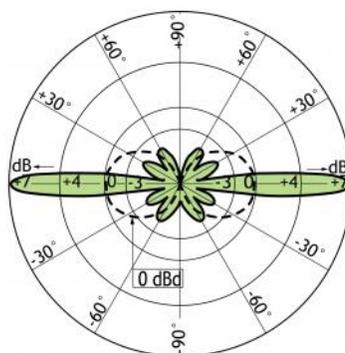
CXL 23-7C/HH



TYPICAL RADIATION PATTERN (H-PLANE)



TYPICAL RADIATION PATTERN (E-PLANE)



MULTI-PURPOSE MOUNTING BRACKET

