

3 dBd Gain Base Station and Marine UHF Antenna

DESCRIPTION

- This colinear UHF antenna with 3 dBd gain is developed for use on board ships as well as on masts, and thanks to the 1" revolving nut mounting system it can be mounted in the mast, in the auxiliary mast as well as on the cross-beam. By means of Procom's flange mount type "FLG", it can also be mounted on deck or rooftop.
- The CXL 70-3/... is in widespread use in connection with 450 MHz CELLULAR systems. The antenna makes it possible to extend the – normally land based – CELLULAR telephone system service for maritime use as well, and here the 3 dBd gain of the antenna comes to definite advantage.
- \sum Bear in mind that the higher the antenna is mounted the better coverage.
- 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.
- The antenna needs neither loading coils, ground-plane, radials nor other auxiliary arrangements.
- 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 assure long dependable service in all climates.

ORDERING

Туре	Product No.	Frequency
CXL 70-3/s	110000141	380 - 410 MHz
CXL 70-3/f	110000140	406 - 430 MHz
CXL 70-3/I	110000142	420 - 450 MHz
CXL 70-3/h	110000139	440 - 470 MHz
CXL 70-3/ls	100000750	340 – 360 MHz



Model		CXL 70-3/
Niddei		
Frequency		CXL 70-3/s : 380 - 410 MHz CXL 70-3/f : 406 - 430 MHz CXL 70-3/l : 420 - 450 MHz CXL 70-3/h : 440 - 470 MHz
Antenna Type		Coaxial dipole, broad-banded
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		30 MHz
HCM Code(s)		HCM000ND00, 015DE50
Mechanical		
Wind Area	0.0337 sq. m / 0.36 sq. ft	
Connection(s)	N(f)	
Materials	Shroud: Polyurethane-coated glass fibre Mounting bracket: Chromed brass	
Colour	White (RAL 9003)	
Height	1430 mm / 56.30 in.	
Wind Load	43 N (160km/h)	
Dia. At Top End	16 mm / 0.63 in.	
Weight	1.2 kg / 2.65 lb	
Dia. At Bottom End	23 mm / 0.91 in.	
Mounting	On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories)	
Environmental		
Operating Temperature Bango 20%C to 170%C		

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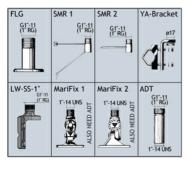
Operating Temperature Range

-30°C to +70°C

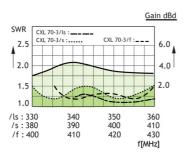


DIAGRAM

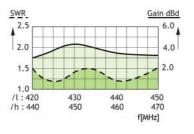
ACCESSORIES (to be ordered separately)



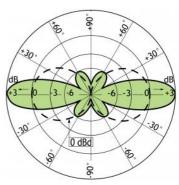
TYPICAL GAIN AND SWR CURVES



TYPICAL GAIN AND SWR CURVES



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)

