

Indoor Right Hand Circularly Polarized Antenna for the 160 MHz and 450 MHz Bands

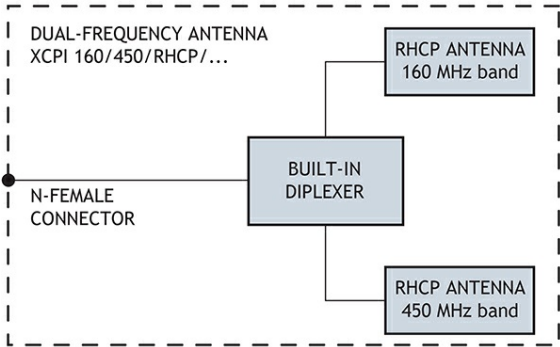
DESCRIPTION

- Dual band indoor base station antenna - one antenna with two bands.
- Low profile antenna for the 160 MHz and 450 MHz bands.
- XCPI 160/450/RHCP/... is a Right Hand Circularly Polarized antenna for indoor use e.g. for ceilings and walls inside ships and houses.
- Circularly polarized antenna to optimize indoor coverage.
- Reduces flutter considerably.
- Specially designed for closed rooms.
- Covers 160 MHz and 450 MHz bands with a gain of approx. 2 dBic for 160 MHz band and 5 dBic for 450 MHz band.
- The two built-in antennas are combined with a diplexer, built in diplexer, with low insertion loss, which makes it possible to have only one download cable.
- The antenna is carefully sealed with a discreet cover.
- The antenna is provided with one connector.
- The connector is placed at one side to enable mounting close to a wall or a ceiling.

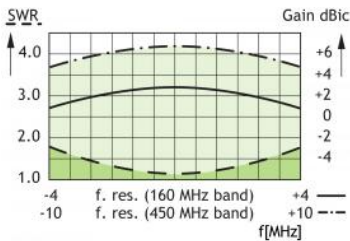
ORDERING

Model	Product No.	Frequency
XCPI 160/450/RHCP/s	100000495	380 - 400 MHz
XCPI 160/450/RHCP/f	100000498	410 - 430 MHz
XCPI 160/450/RHCP/l	100000722	430 - 450 MHz
XCPI 160/450/RHCP/h	100000496	450 - 470 MHz

DIAGRAM



TYPICAL GAIN AND VSWR CURVES

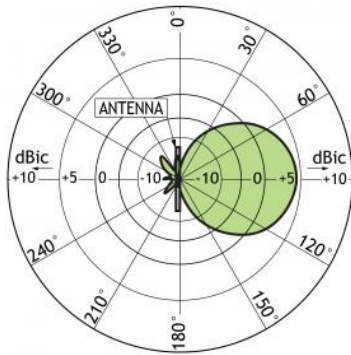


SPECIFICATIONS

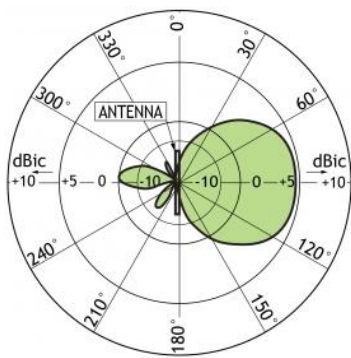
Electrical	
Model	XCPI 160/450/RHCP/...
Frequency	VHF : 144 - 175 MHz UHF : 380 - 470 MHz (Sub-banded)
Antenna Type	Right hand circularly polarized dual band antenna
Max. Input Power	25 W
Polarisation	Circular (Right hand)
3 dB Beamwidth, E-Plane	60 °
3 dB Beamwidth, H-Plane	60 °
Impedance	50 Ω
Gain	VHF : 2 dBic UHF : 5 dBic
VSWR	≤ 2.0:1
Bandwidth	VHF : ≥ 8 MHz UHF : ≥ 20 MHz
In iBWave	Yes
Mechanical	
Connection(s)	N(f)
Materials	Cover: PS (white) Chassis: Stainless steel
Colour	Marine white
Dimensions	Approx. 608 x 608 x 90 mm / 23.94 x 23.94 x 3.54 in.
Weight	Approx. 6.0 kg / 13.23 lb
Mounting	5.5 mm dia. (4 holes) For optimum performance a groundplane of 1 x 1 m is required
Environmental	
Operating Temperature Range	-30°C to +75°C

TYPICAL RADIATION PATTERN

(450 MHz band - E-Plane)

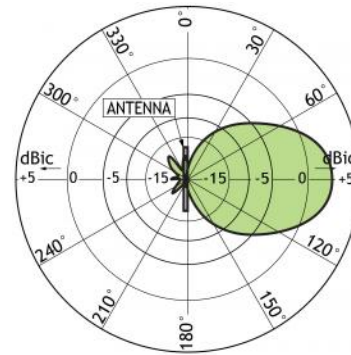


(450 MHz band - H-Plane)

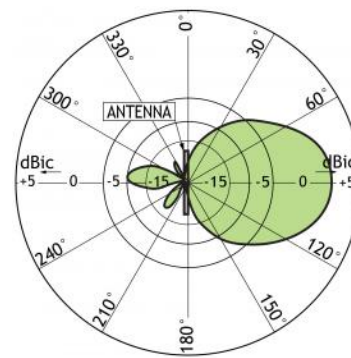


TYPICAL RADIATION PATTERN

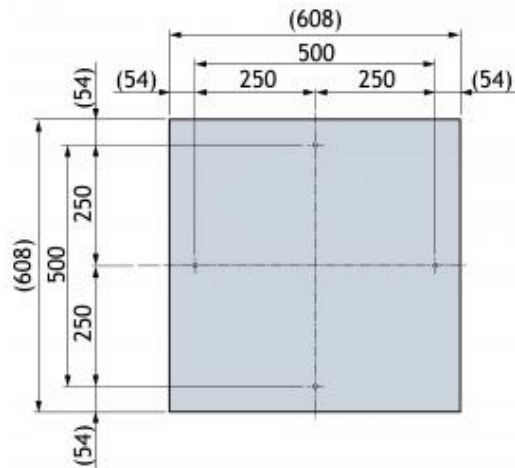
(160 MHz band - E-Plane)



(160 MHz band - H-Plane)



MOUNTION DETAILS (DIMENSIONS EXCL. COVER)



All dimensions are given in mm.