

WANTENNAX019

Circular polarized antenna
8.5dBc - ETSI

Features

- Designed for RAIN RFID long range applications
- Frequency Range 865 ÷ 868 MHz
- Gain 8.5 dBc
- Right Hand Circularly Polarized (RHCP)

General Info

This antenna is designed for RAIN RFID long range application like portals, vehicles identification, access control or waste management. Thanks to the circular polarization, the tag read range is independent from the relative tag – antenna orientation. The enclosure is IP65 rated for outdoor installation.

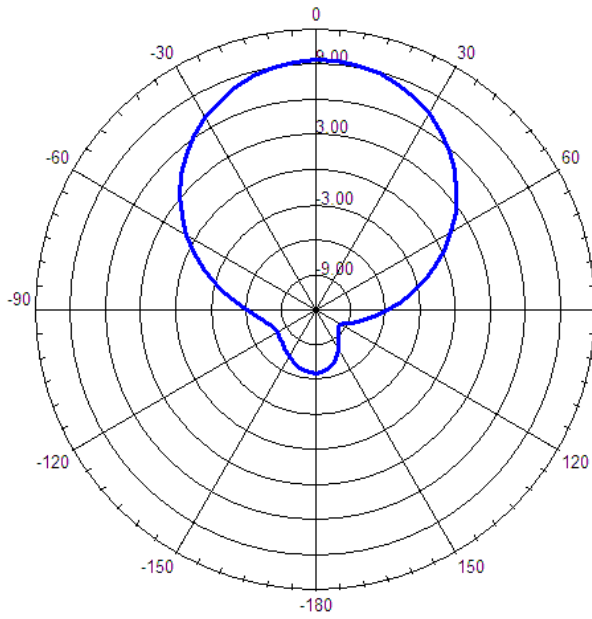
Technical Specifications Table

Frequency Range	865 ÷ 868 MHz (ETSI EN 302 208 v3.1.1)
Polarization	Right Hand Circularly Polarized (RHCP)
Gain	8.5 dBc
Half-Power Beamwidth (3dB)	65° (Elevation) 65° (Azimuth)
Front-to-Back Ratio	17 dB
Axial Ratio at Boresight	2 dB
VSWR	1.1:1
Nominal Impedance	50 ohm
Power	2 W e.i.r.p. (ETSI EN 302 208 v3.1.1) 5W (max)
Lightning Protection	Capacitor feed system
Dimensions	(L) 270 x (W) 270 x (D) 75 mm ³
Weight	1.2 kg
Connector	N-m with 30cm RG58 cable
Radome	Polystyrene plastic (UV rating)
Mounting Kit	Aluminium (for pole)
IP Rating	IP65
Operating Temperature	-30 to +60 °C
Storage Temperature	-30 to +60 °C
Wind Speed	160 km/h
Wind Surface	0.066 m ²

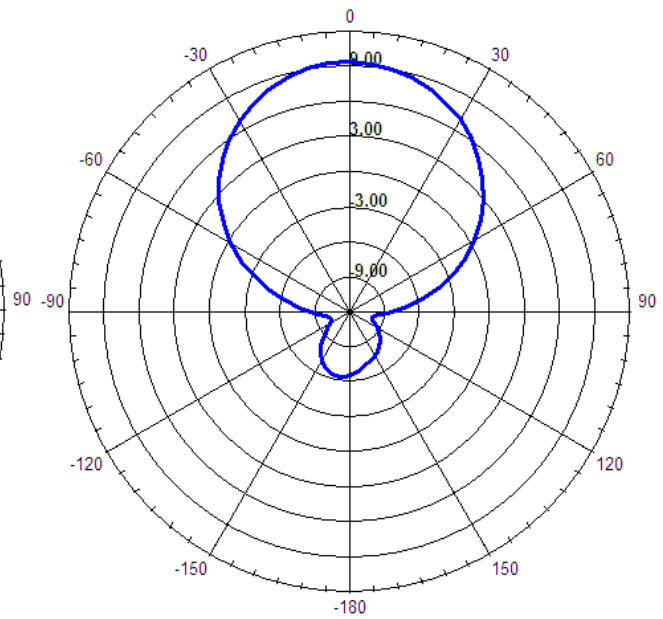
Ordering Options

Code	Description
WANTENNAX019	ETSI Circular polarized antenna 8.5dBc

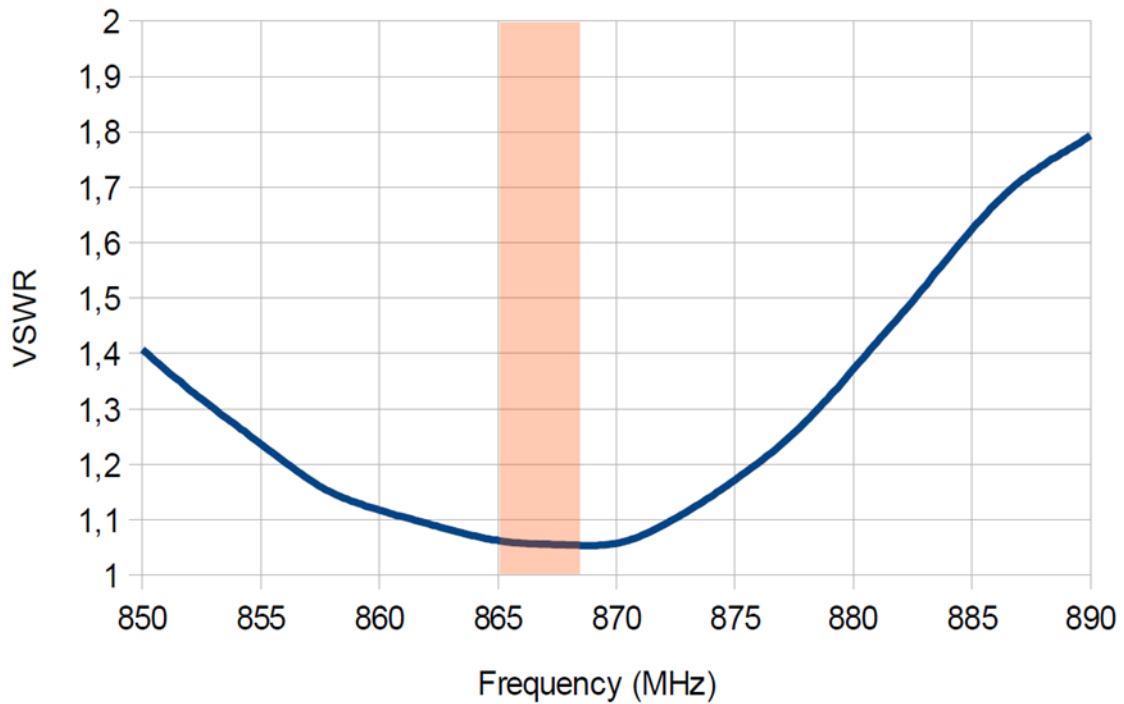
Total Gain - Azimuth



Total Gain - Elevation



VSWR vs Frequency



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