

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.

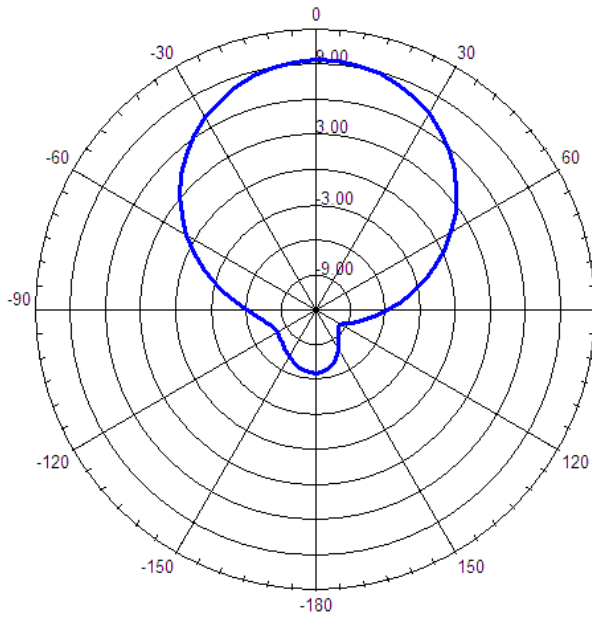
Technical Specifications Table

| | |
|----------------------------|--|
| 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 |

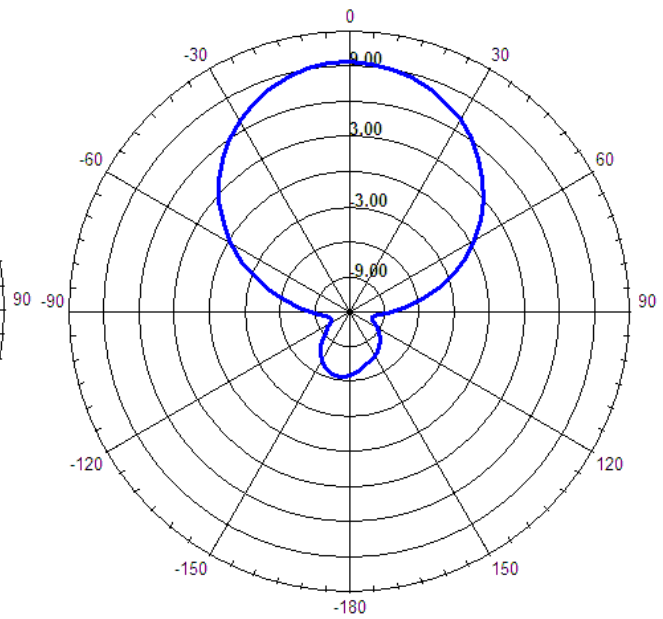
Ordering Options

| Code | Description |
|--------------|--|
| WANTENNAX019 | ETSI Circular polarized antenna 8.5dBc |

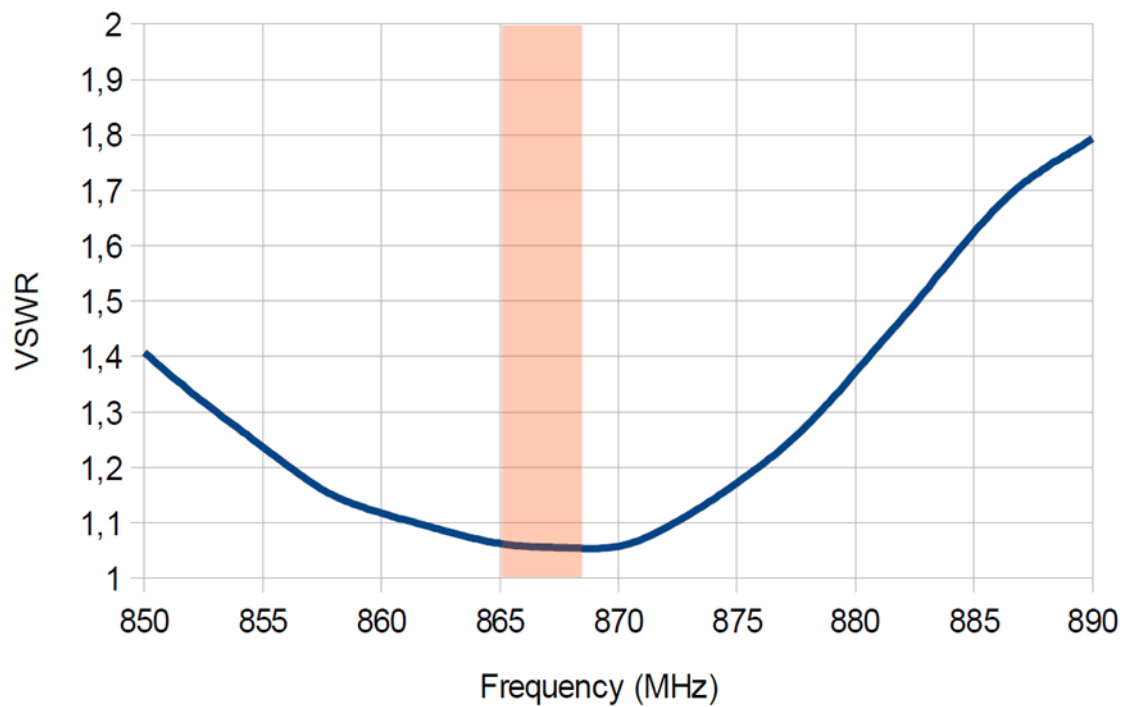
Total Gain - Azimuth



Total Gain - Elevation



VSWR vs Frequency



Copyright © CAEN RFID srl. All rights reserved. Information in this publication supersedes all earlier versions. Specifications subject to change without notice.

CAEN RFID srl via Vetraria, 11 - 55049 Viareggio (LU) - Italy

Tel. +39 0584 388398 Fax +39 0584 388959



www.caenrfid.com



info@caenrfid.com