

MA-WC910-RHCP9

Preliminary

860-960 MHz Circular Polarization, RFID Reader Antenna

The RFID antenna from MARS is an innovative antenna that adds flexibility to the RFID system.

MA-WA910-RHCP9 antenna covers the standard 902-928 MHz RFID frequency, as well as a wide frequency band of 860-960 MHz with a RHCP circular polarization, low VSWR and axial ratio.

The antenna designed for Point-to-Multipoint systems.

Additional features:

- High efficiency.
- Superb co-siting performance due to low SSL and high F/B rejection.
- Unobtrusive, blends easily with the environment.
- Optionally available with Pole Mount or MNT-22 (pole/wall, azimuth and elevation adjustable mount).



Specifications

Electrical

Frequency range	860 - 960 MHz
GAIN, typ.	9 dBic
VSWR, max.	1.7 : 1
Polarization	RHCP
3 dB Beam-Width, H-Plane, typ.	65°
3 dB Beam-Width, E-Plane, typ.	65°
Front to Back Ratio, typ.	-20 dB
Axial Ratio, typ.	- 4 dB (5 dB max.)
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 30 mm
Weight	0.5 kg.
Connector	N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Polycarbonate
Mount	MNT-23

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11
Ice and Snow	25mm radial (survival)

MARS Antennas & RF Systems proprietary information

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