iDTRONIC

PROFESSIONAL RFID

Ground Antennas

Applications

- · Event and Race Timing
- · Conference Attendee Tracking
- · Industrial Asset Tracking

Features

- · Ultra low-profile
- · 8 mm thick
- · Powerful with 9 dBic/ 10dBi gain
- · Available in linear/ circular version

RFID Options
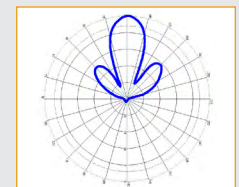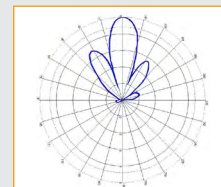
- · **UHF** (865 - 867 MHz)

Description

iDTRONICs unique range of ground antennas A6590C/A6590L is optimized for RFID deployments involving moving products, assets and people. From conference attendee and people tracking, retail presence aware/ loyalty marketing & race timing, the A6590C/A6590L are ideal for applications where traditional side antennas are unsuitable or not optimized for the application. At just 8mm thickness, the durable, high performance A6590C/A6590L are uniquely capable of lying flat on the ground within a doorway sized footprint and can withstand payloads of over 200 kg.
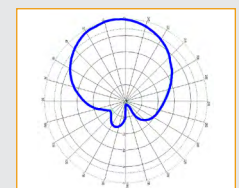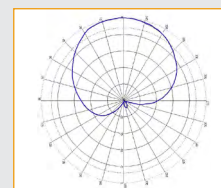
Technical Data

Electrical Specifications

	A6590C	A6590L
Frequency Range	864–869 MHz/ 902–928 MHz	864–869 MHz/ 902–928 MHz
Polarisation	Circular	Linear
Far-field Gain	9 dBic	10 dBi
Fare-field 3dB beam width	80° XZ, 20° YZ	72° XZ, 23° YZ
VSWR	<1.4:1	<1.4:1
Front to back ratio	24 dB	20 dB
Axial Ratio	ETSI: 3dB (typ) at boresight FCC: 2dB (typ) at boresight	
Nominal Impedance	50 Ω	50 Ω
Anti-static protection	YES	YES
Maximum input Power	6W	6W

Physical / Environmental Specifications

	A6590C	A6590L
Dimensions	915mm x 305mm x 8mm	910mm x 300mm x 8mm
Weight	2 kg	2 kg
Radome Material	Fire retardant Kydex	Fire retardant Kydes
Environmental Rating	IP65	IP65
Operating / Storage Temperature	-20° to +55°C	-20° to +55°C
Connector type / position	SMA female side fly lead (300mm)	SMA female side fly lead (300mm)
Cable	2m SMA to RPTNC (included)	2m SMA To RPTNC (included)

XZ-Plane

YZ-Plane

Order Codes

Version	Order Code
Circular	R-T7-A6590C
Linear	R-T7-A6590L

For further information & prices, please contact info@idtronic-rfid.com