

RFID UHF ANTENNA GROUND ANTENNAS

APPLICATIONS

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

FEATURES

- Ultra low profile
- 8 mm thick
- Powerful with 9 dBic | 10 dBi
- Available in linear | circular

RFID OPTIONS

- UHF (865 - 867 MHz)

DESCRIPTION

iDTRONIC's 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

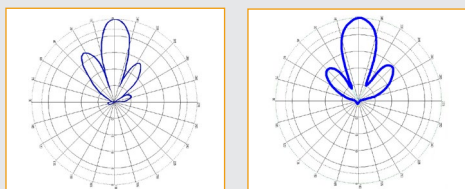
ELECTRICAL SPECIFICATIONS

| | 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: 3 dB (typ) at boresight FCC: 2 dB (typ) at boresight | |
| Nominal Impedance | 50 Ω | 50 Ω |
| Anti-static protection | YES | YES |
| Maximum input Power | 6W | 6W |

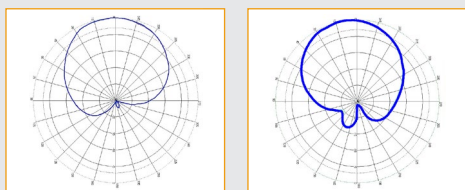
PHYSICAL / ENVIRONMENTAL SPECIFICATIONS

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

XZ-Plane



YZ-Plane



ORDER CODES

| VERSIONS | ORDER CODES |
|----------|-------------|
| Circular | R-T7-A6590C |
| Linear | R-T7-A6590L |

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