UHF Embedded Antennas

PRODUCT DESCRIPTION

These circular polarised Embedded Antennas are especially designed for operation in the EU or US UHF RFID band.

Their small-band design allows an extra in gain, so with this small form-factor a maximum can be achieved. Our UHF Antennas are perfect for integration into mobile devices, self-checkout system and much more applications. They are available with U.FL or SMA female connector.

You have the choice of four various sizes, according to your storage and application needs.

APPLICATIONS

- Label Encoding
- Self-Check In / Out
- Handheld Computer
- Product Identification
- Access Control

FEATURES

- Supports UHF Frequency
- 4 different Sizes
- RHCP (Circular Polarized)
- U.FL or SMA female

RFID OPTIONS

- UHF (868 ±4 MHz or 922 ±4 MHz)
### PRODUCT SPECIFICATIONS

**A901**

- **Product Description**: Embedded Antenna for UHF frequency
- **Operating Frequency**: 868 ±4 MHz or 922 ±4 MHz
- **Gain**: 4 dBi
- **Polarisation**: Right hand circular polarised (RHCP)
- **Bandwidth (MHz)**: 10
- **V.S.W.R**: 1.3:1
- **Impedance**: 50 Ohms
- **RF Cable**: RG174 (10 cm)
- **RF Connector**: U.FL
- **Dimensions**:
  - Groundplate: 90 × 90 × 6 mm
  - Antenna: 64 × 64 mm
- **Operating Temperature**: -10 °C to +55 °C

**A902**

- **Product Description**: Embedded Antenna for UHF frequency
- **Operating Frequency**: 868 ±4 MHz
- **Gain**: -1 dBi
- **Polarisation**: Right hand circular polarised (RHCP)
- **Bandwidth (MHz)**: 2
- **V.S.W.R**: 1.5:1
- **Impedance**: 50 Ohms
- **RF Cable**: RG174 (10 cm)
- **RF Connector**: U.FL
- **Dimensions**:
  - Groundplate: 40 × 40 × 5 mm
  - Antenna: 36 × 36 mm
- **Operating Temperature**: -10 °C to +55 °C

**A903**

- **Product Description**: Embedded Antenna for UHF frequency
- **Operating Frequency**: 864 MHz - 868 MHz (EU)
  - 902 MHz - 928 MHz (US)
- **Gain**: -13 dBi
- **Polarisation**: Right hand circular polarised (RHCP)
- **Bandwidth (MHz)**: 2
- **V.S.W.R**: 2.0:1
- **Impedance**: 50 Ohms
- **RF Connector**: SMA female
- **Dimensions**:
  - Groundplate: 25 × 25 × 1.5 mm
  - Antenna: 18.5 × 18.5 × 2 mm
- **Operating Temperature**: -20 °C to +55 °C

**A904**

- **Product Description**: Embedded Antenna for UHF frequency
- **Operating Frequency**: 868 ±4 MHz
- **Gain**: -1 dBi
- **Polarisation**: Right hand circular polarised (RHCP)
- **Bandwidth (MHz)**: 2
- **V.S.W.R**: 1.5:1
- **Impedance**: 50 Ohms
- **RF Cable**: RG174 (10 cm)
- **RF Connector**: U.FL
- **Dimensions**:
  - Groundplate: 70 × 70 × 5 mm
  - Antenna: 36 × 36 mm
- **Operating Temperature**: -10 °C to +55 °C

### ORDER CODES

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