

UHF EMBEDDED ANTENNAS

PRODUCT DESCRIPTION

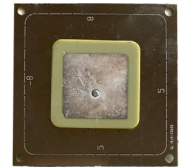
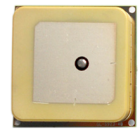
These circular polarised UHF Embedded Antennas are especially designed for operation in the EU or US UHF RFID band. They are especially developed for our Embedded RFID UHF Modules with external antenna connection. We offer different sizes and antenna gains to choose from for your individual application need.

Their small-band design allows an extra in gain, so with this small form-factor a maximum can be achieved. Our UHF Embedded 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.

ORDER CODES

VERSIONS	ORDER CODES
A901: 4 dBic Groundplate: 90 × 90 × 6 mm	OEM-UHF-A901-GP-UFL
A901 - FCC Version	OEM-UHF-GP-A901-UFL-FCC
A902: -1 dBic Groundplate: 40 × 40 × 5 mm	OEM-UHF-A902-GP-UFL
A903: -13 dBic Groundplate: 25 × 25 × 1.5 mm	OEM-UHF-A903-GP-SMA
A903 - FCC Version	OEM-UHF-GP-A903-SMA-FCC
A904: -1 dBic Groundplate: 70 × 70 × 5 mm	OEM-UHF-A904-GP-UFL



▶ 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)

TECHNICAL DATA

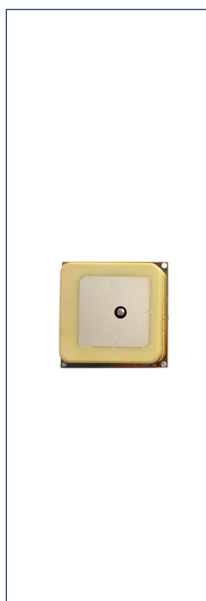
A901



PRODUCT SPECIFICATIONS

Product Description	Embedded Antenna for UHF frequency
Operating Frequency	868 ±4 MHz or 922 ±4 MHz
Gain	4 dBic
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 SPECIFICATIONS

Product Description	Embedded Antenna for UHF frequency
Operating Frequency	868 ±4 MHz
Gain	-1 dBic
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 SPECIFICATIONS

Product Description	Embedded Antenna for UHF frequency
Operating Frequency	864 MHz - 868 MHz (EU) 902 MHz - 928 MHz (US)
Gain	-13 dBic
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 SPECIFICATIONS

Product Description	Embedded Antenna for UHF frequency
Operating Frequency	868 ±4 MHz
Gain	-1 dBic
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