

# HF | MF | DESFire Embedded Antennas



## APPLICATIONS

- Ticketing
- Payment
- Access Control
- Mobile Terminals

## FEATURES

- Supports HF: 13.56 MHz
- 7 different Sizes
- 50 Ohms
- U.FL or 2-pin Molex

## RFID OPTIONS

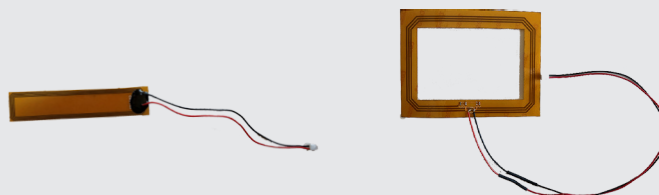
- HF | MF | DESFire

## PRODUCT DESCRIPTION

The HF Embedded Antennas were designed for HF frequency areas. They are perfect for integration into mobile devices, self-checkout systems or mobile terminals.

The HF Embedded antennas are available in 7 different sizes. This makes them individually applicable in different systems and solutions. Optionally, they are available with U.FL or 2-pin Molex connector.

We offer these HF embedded antennas as On or Off Metal version. In addition we offer customer specific adjustments to the antennas. We can develop completely new antennas for you. Also, we provide FLEX PCB Antennas. These flexible antennas can be used for curved or angular surfaces.



# TECHNICAL DATA

## A910



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 20 × 30 mm
Operating Temperature	-10 °C to +55 °C

## A911



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 20 × 40 mm
Operating Temperature	-10 °C to +55 °C

## A912



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 35 × 50 mm
Operating Temperature	-10 °C to +55 °C

## A913



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 80 × 80 mm
Operating Temperature	-10 °C to +55 °C

## A914



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 60 × 80 mm
Operating Temperature	-10 °C to 55 °C

## A915



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 45 × 86 mm
Operating Temperature	-10 °C to +55 °C

## A916



### PRODUCT SPECIFICATIONS

Product Description	PCB Antenna for HF frequency
Operating Frequency	13.56 MHz
Impedance	50 Ohms
RF Connector	U.FL or MOLEX PicoBlade 53261 (PCB conn.) 51021 (cable conn.)
Dimensions	Antenna: 49 × 55 mm
Operating Temperature	-10 °C to +55 °C

## ORDER CODES

VERSIONS	ORDER CODES
OEM HF Antenna 20 × 30 mm - M8 U.FL	OEM-HF-M8-A910-UFL
OEM HF Antenna 20 × 30 mm - M8 U.FL with cable	OEM-HF-M8-A910-UFL-C
OEM HF Antenna 20 × 30 mm - 2-pin Molex	OEM-HF-M8-A910-MO
OEM HF Antenna 20 × 40 mm - M8 U.FL	OEM-HF-M8-A911-UFL
OEM HF Antenna 20 × 40 mm - M8 U.FL with cable	OEM-HF-M8-A911-UFL-C
OEM HF Antenna 20 × 40 mm - 2-pin Molex	OEM-HF-M8-A911-MO
OEM HF Antenna 35 × 50 mm - M8 U.FL	OEM-HF-M8-A912-UFL
OEM HF Antenna 35 × 50 mm - M8 U.FL with cable	OEM-HF-M8-A912-UFL-C
OEM HF Antenna 35 × 50 mm - 2-pin Molex	OEM-HF-M8-A912-MO
OEM HF Antenna 80 × 80 mm - M8 U.FL	OEM-HF-M8-A913-UFL
OEM HF Antenna 80 × 80 mm - M8 U.FL with cable	OEM-HF-M8-A913-UFL-C
OEM HF Antenna 80 × 80 mm - 2-pin Molex	OEM-HF-M8-A913-MO
OEM HF Antenna 60 × 80 mm - M8 U.FL	OEM-HF-M8-A914-UFL
OEM HF Antenna 60 × 80 mm - M8 U.FL with cable	OEM-HF-M8-A914-UFL-C
OEM HF Antenna 60 × 80 mm - 2-pin Molex	OEM-HF-M8-A914-MO
OEM HF Antenna 45 × 86 mm - M8 U.FL	OEM-HF-M8-A915-UFL
OEM HF Antenna 45 × 86 mm - M8 U.FL with cable	OEM-HF-M8-A915-UFL-C
OEM HF Antenna 45 × 86 mm - 2-pin Molex	OEM-HF-M8-A915-MO
OEM HF Antenna 49 × 55 mm - M8 U.FL	OEM-HF-M8-A916-UFL
OEM HF Antenna 49 × 55 mm - M8 U.FL with cable	OEM-HF-M8-A916-UFL-C
OEM HF Antenna 49 × 55 mm - 2-pin Molex	OEM-HF-M8-A916-MO

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