



## HF | MF | DESFIRE

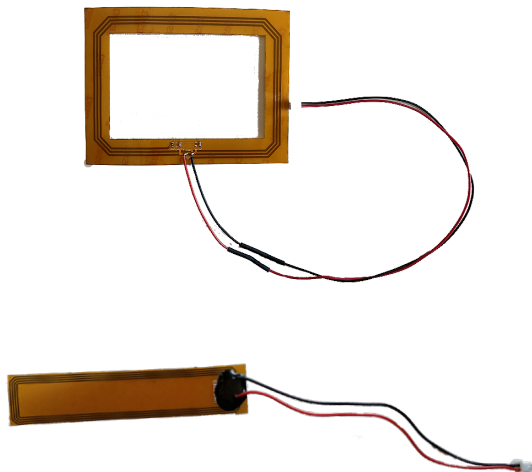
# EMBEDDED ANTENNAS

### 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.



#### ▶ 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

## 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

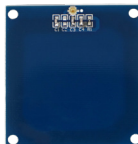
### A914

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