

# PRODUCT DATASHEET

## Confidex Leaf™



Sustainable, paper-based and plastic-free suitable for indirect contact with food.

### ELECTRICAL SPECIFICATION

#### Device type

UHF RFID / EPCglobal Gen2v2

#### Operational frequency

Global 865-928MHz

#### IC type

Impinj Monza 4E™

#### Memory configuration

EPC 496 bit; User 128 bit; TID 96 bit

#### Read range (2W ERP)\*

ETSI: On cardboard: up to 8m

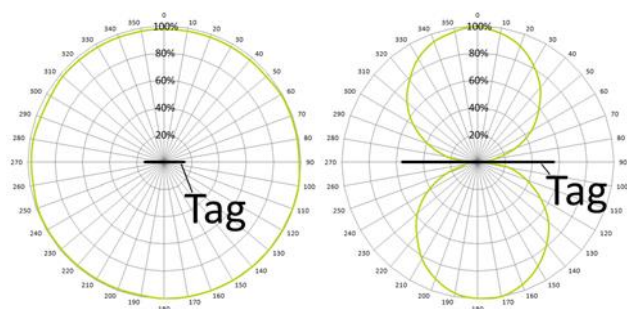
FCC: On cardboard: up to 10m

#### Applicable surface materials\*

Non-metallic surfaces

\* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). ETSI = 865 - 868 MHz, FCC = 902 - 928 MHz. Different surface materials may have an effect on performance.

### RADIATION PATTERNS



### MECHANICAL SPECIFICATION

#### Tag materials

Paper face material

#### Background adhesive

Water-soluble adhesive

#### Delivery format

2000 pcs on reel

#### Pitch on reel

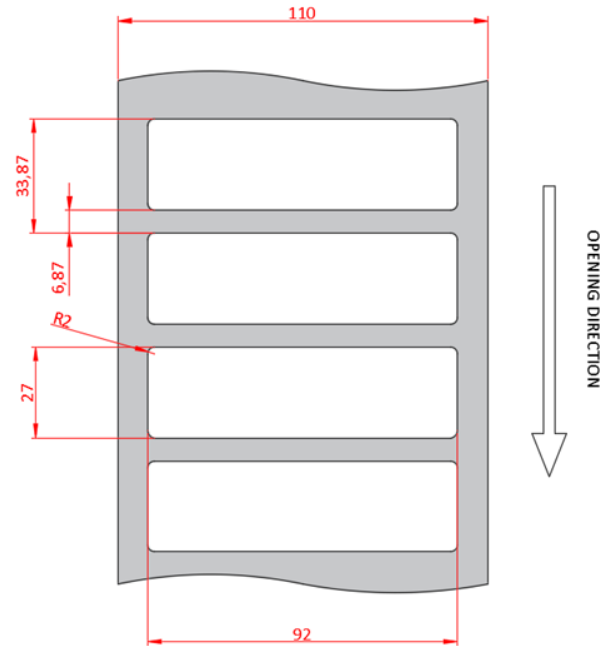
33.87mm / 1.333"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

92mm x 27mm / 3.62" x 1.06"



### ENVIRONMENTAL RESISTANCE

#### Application temperature

0C to +30°C / 32°F to +86°F

#### Operating temperature

-30°C to +55°C / -22°F to +131°F

#### Storage condition

6-month shelf life at +20°C / 45% RH with original plastic sealed package

#### Additional notes

Label is sensitive to environmental humidity. It is recommended to use plastic sealed packages in storage.

*Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.*

## INSTALLATION INSTRUCTIONS



Tag polarization

Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the Confidex Leaf™ labels will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

Confidex Leaf™ label antenna parts should not be in contact with metal to enable best performance of the label.

Minimum bending diameter of the label is defined to be 50mm. Do not bend the label above the limit. Never touch on the location of the IC. IC is a sensitive electrical component and can be damaged if unexpected pressure is applied on it.

## ORDER INFORMATION

**Product number:** 3003256

**Product name:** Confidex Leaf™ M4E

For additional IC versions, information and technical support, contact Confidex Ltd.

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