

PRODUCT DATASHEET

Confidex Carrier KLT™



Label for returnable plastic containers compliant with VDA recommendation 4500.

ELECTRICAL SPECIFICATION

Device type

UHF RFID / EPCglobal Gen2v2

Operational frequency

Global 860-960MHz

IC type

Impinj Monza 4E™

Memory configuration

EPC 496 bit; User 128 bit; TID 96 bit

Read range (2W ERP)*

ETSI on plastic up to 12,5 m / 41 ft

ETSI on cardboard up to 11 m / 36 ft

FCC on plastic up to 12 m / 39 ft

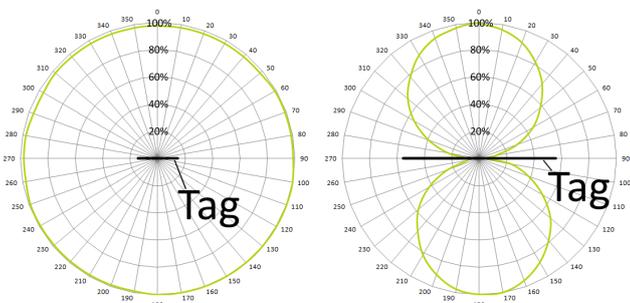
FCC on cardboard up to 10,5 m / 34 ft

Applicable surface materials*

Non-metallic surfaces. Works well also on boxes where content varies from fruits, vegetables or other groceries to liquid bottles and utilities.

* 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

Printable white PET, resin ribbon is recommended

Background adhesive

High performance acrylic adhesive specifically for low surface energy plastics

Weight

Approx. 1 g

Delivery format

2000 pcs on reel

Pitch on reel

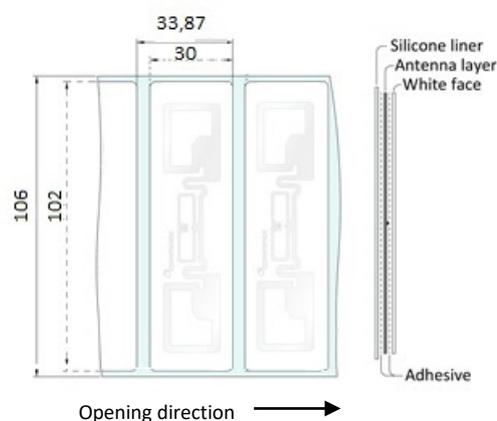
33,87 mm / 1.33"

Reel core inner diameter

76 mm / 3"

Tag dimensions

102 x 30 x 0,2 mm / 4.01 x 1.18 x 0.01 in



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +90°C / -31°F to +194°F

Water resistance

Good, tested 5 hours in 1m deep water (IP68)

Chemical resistance

- No physical or performance changes in:
- 168h Salt water (salinity 10%) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure
- 24h NaOH (10%, pH 13) exposure
- 20min Acetone exposure

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

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.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer-specific encoding of EPC or user memory. Locking permanently or with password.

Customized printing

- Customer-specific layout including logo, text, numbers, barcodes etc.

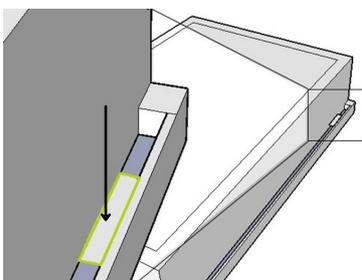
Over-lamination

- Pre-printed labels may be protected with optional protective PET film on top of the label

INSTALLATION INSTRUCTIONS



While planning the installation, most recommended location for the Confidex Carrier KLT™ label is in a position, where the structure of the identified asset provides protection against mechanical stresses such as impacts or jet streams. There is no need for line of sight between reader and label so it can be installed for example like shown in picture below.



Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the label 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.

During attachment to the identified asset, please avoid touching the background adhesive. If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement.

Minimum bending diameter of the Confidex Carrier KLT™ 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 the it.

ORDER INFORMATION

Product number: 3003340

Product name: Confidex Carrier KLT™ M4E

Protective over-lamination: Contact Confidex for item details.

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

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