

# PRODUCT DATASHEET

## Confidex Heatwave Flag Printable™



Printable RAIN RFID tag with temperature resistance against automotive paint shop cycle process

### ELECTRICAL SPECIFICATION

#### Device type

RAIN RFID / EPCglobal Gen2v2

#### Operational frequency

Global 865-928 MHz

#### IC options and memory configurations

Impinj M780™

- EPC 496 bit; User 128 bit; TID 96 bit

#### EPC memory content

Unique number encoded

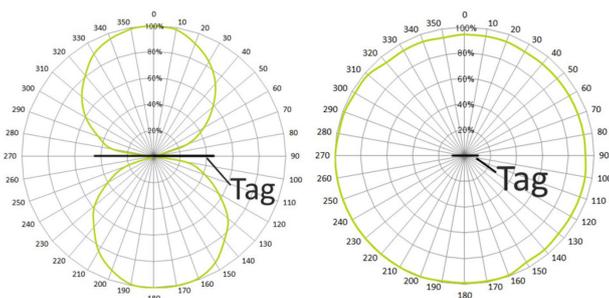
#### Read range (2W ERP)\*

ETSI: Up to 19 m / 62 ft

FCC: Up to 15m / 50 ft

\* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.

### RADIATION PATTERNS



### MECHANICAL SPECIFICATION

#### Tag materials

Special film for high temperatures. No adhesive by default, attached mechanically.

#### Weight

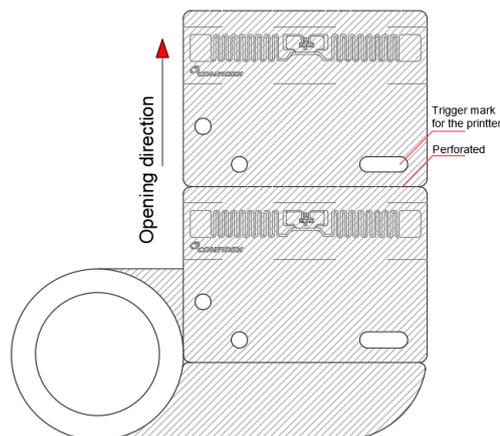
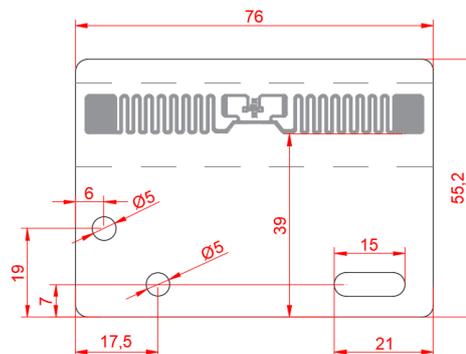
1 g

#### Delivery format

On reel. 1500 pcs labels on one reel.

#### Dimensions

76 x 55,2 x 0,32 mm / 3 x 2.17 x 0.013 in



### ENVIRONMENTAL RESISTANCE

#### Operating temperature

-35°C to +85°C / -31°F to +185°F

#### Peak temperature

1 hour: +220°C / +428°F

10 min: +260°C / +500°F

#### IP classification

IP68

#### Bending resistance

Withstands 50mm radius also in high temperatures

#### Chemical resistance

No physical or performance changes in:

- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 10min Sulfuric acid (10%, pH 2) exposure
- 10min NaOH (10%, pH 13) exposure
- 2h Acetone

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 with or without locking

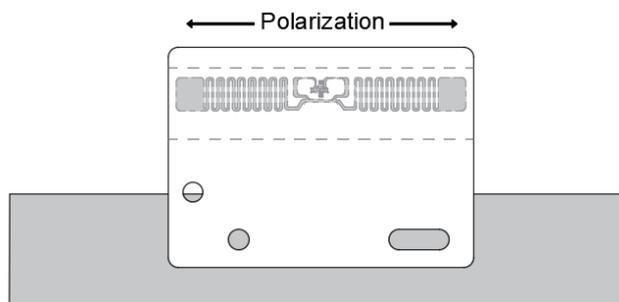
### Visual marking

- Printing of customer specific content

## INSTALLATION INSTRUCTIONS

Confidex Heatwave Flag Printable™ can be attached with screws or pop rivets through Ø5mm holes. Tag shall be attached on top of metal so that the antenna part is protruded out from metal as shown in picture below. This will maximize the tag reading distance. Tag will also work when attached on plastic assets.

Polarization of tag is along its longest dimension. This should be taken into account when linear reader antennas are used.



Select the location carefully in a vehicle body or tagged item. Good placement will ensure smooth identification in every stage of manufacturing till the end of assembly line and beyond. Please contact Confidex for further assistance.

## ORDER INFORMATION

**Product number:** 3004238

**Product name:** Confidex Heatwave Flag™ Printable M780

For additional information and technical support, please contact Confidex Ltd.

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