

PRODUCT DATASHEET

Confidex On Metal Label

100x5,5mm™



Narrow on metal label for metallic and painted metal surfaces.

ELECTRICAL SPECIFICATION

Device type

UHF RFID / EPCglobal Gen2v2

Operational frequency

FCC 902 – 928 MHz

IC type

Impinj Monza R6™

Memory configuration

EPC 96 bit, TID 96 bit

Read range (2W ERP)*

On metal 3m / 10ft

Applicable surface materials*

Performance optimized for metal

* 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). Different surface materials may have an effect on performance. Note that when attached on curved surface the length of curved asset also has an effect on read range.

MECHANICAL SPECIFICATION

Label surface

Transparent PET

Background adhesive

High performance acrylic adhesive optimized for metal and painted metal surfaces

Weight

1 g

Delivery format

1000 pcs good labels on reel, bad ones marked with "XXX" printing.

Pitch on reel

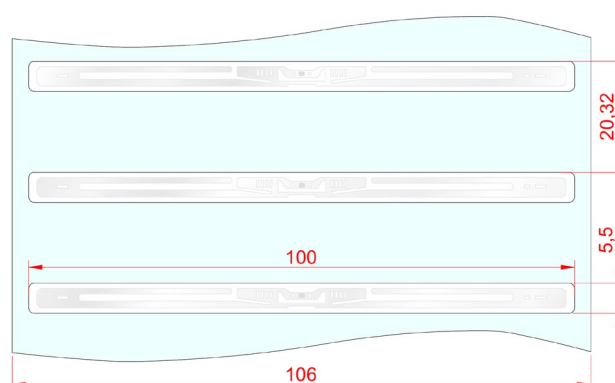
20,32 mm / 0.8"

Reel core inner diameter

76 mm / 3"

Tag dimensions

100±1 x 5,5±1 x 1,1 mm / 3.94 x 0.22 x 0.04"



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +85°C / -31°F to +185°F
+95°C for 1h / 203°F for 1h

Water resistance

IP68

Washing resistance

Tolerates industrial washing with standard solvents. Washing process should be tested in final application.

Chemical resistance

No physical or performance changes in:

- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 2h Sulfuric acid (10%, pH 2) exposure
- 30min NaOH (10%, pH 13) exposure

Storage condition

1 year in +20°C / 50% RH

Environmental values are the best recommendations; resistance against different 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.

INSTALLATION INSTRUCTIONS



When attaching the label ensure the following

- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal application temperature is from +21°C to +38°C (+70°F to +100°F). Bond strength can be improved with firm application pressure and moderate heating up to +54°C (+130°F). Application at temperatures below 10°C (50°F) is not recommended.

Smallest recommended bending diameter of the Confidex On Metal Label™ is 50mm with below orientation.



ORDER INFORMATION

Product number: 3001997

Product name: Confidex On Metal Label 100x5.5mm™ MR6 FCC

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

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