PRODUCT DATASHEET

Confidex Silverline Micro II™

On metal RFID label with small footprint and industry leading printing compliancy

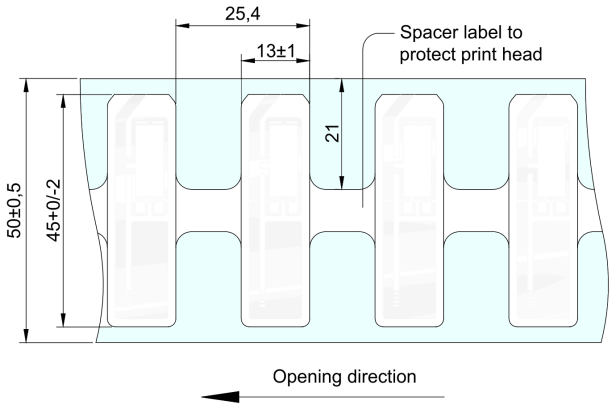
ELECTRICAL SPECIFICATION

Device type
Class 1 Generation 2 passive UHF RFID transponder
Air interface protocol
EPCGlobal Class1 Gen2 ISO 18000-6C
Operational frequency
ETSI: 865 - 869 MHz
FCC: 902 - 928 MHz
IC type
Impinj Monza R6-P™
Memory configuration
EPC 96/128 bit; User 32/64 bit; TID 96 bit
EPC memory content
Unique random 96bit EPC in every label
Read range (2W ERP)*
ETSI and FCC
On metal up to 3,5 m / 12 ft
On plastic up to 1,5 m / 5 ft
On liquid up to 2 m / 7 ft
Applicable surface materials*
Optimized for metal but works on any surface
Attachment on curved surface
Label can be attached on a curved surface. Check installation instructions for more details.

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

MECHANICAL SPECIFICATION

Label surface
Printable white PET, Zebra 5095 resin ribbon recommended
Background adhesive
High performance acrylic adhesive optimized for metal and painted metal surfaces
Weight
0,3 g
Delivery format
600 pcs good labels on reel, bad ones marked with “XXX” printing.
Pitch on reel
25,4 mm / 1”
Reel core inner diameter
76 mm / 3”
Tag dimensions
45 x 13 x 1,3 mm / 1.77 x 0.51 x 0.05”



PRINTER COMPATIBILITY

The Confidex Silverline family is designed and verified to work with the **Custom Zebra ZT410 RFID Silverline and ZT411 On Metal** printers. Other Zebra printers are not recommended or supported. Contact your Authorized Zebra Reseller for ordering information.

Set-up instructions and printer configurations specifically for Silverline tags and the compliant printers are available on Zebra.com or by contacting Zebra Technical Support.

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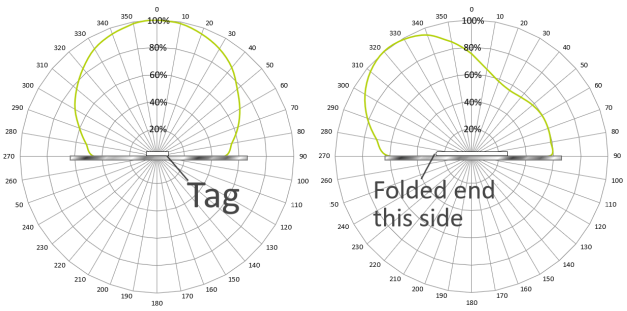
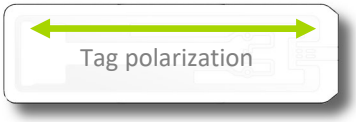
RADIATION PATTERNS



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 +16°C to +38°C (+60°F to +100°F), bond strength can be improved with firm application pressure and moderate heating from +38°C to +54°C (+100°F to +130°F). Application at temperatures below 10°C (50°F) is not recommended.

For optimal read range it is important to test different placement of label on the actual asset. It is recommended to leave metal at least to non-folded end of the label as shown below.

Minimum bending diameter of the Confidex Silverline Micro II™ is 100mm. For optimal performance please bend the label in the orientation shown below.

ENVIRONMENTAL RESISTANCE

Operating temperature
-35°C to +85°C / -31°F to +185°F

Peak temperature
+110°C / 230°F for 10min

Water resistance
IP68, tested for 5 hours in 1m deep water

Washing resistance
Tolerates industrial washing with standard solvents. Washing durability is recommended to be tested in the final application.

Chemical resistance
No physical or performance changes in:

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

Printing durability is recommended to be tested in the final application.

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.

ORDER INFORMATION

Zebra part number: 10026763
Product name: Confidex Silverline Micro II™ MR6-P ETSI

Zebra part number: 10026764
Product name: Confidex Silverline Micro II™ MR6-P FCC

For additional information and technical support, please contact your Authorized Zebra Reseller or Zebra Technical Support.

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