



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 influence performance.

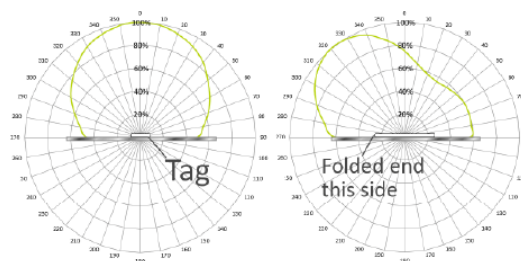
Mechanical Specification

- **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.

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.

- **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"

Radiation Patterns



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

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. Final bond strength is achieved in 72 hours.

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.

Printer Compatibility

The 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.

Order Information

- **Zebra part number:** 10026763
- **Product name:** Silverline Micro II™ MR6-P ETSI
- **Zebra part number:** 10026764
- **Product name:** Silverline Micro II™ MR6-P FCC

Industry Compliance



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