



Silverline Blade II+™

On Metal RFID label with global reading and high memory IC for industrial applications



Electrical Specification

- **Device type**
 - RAIN RFD / EPCglobal Gen2v2
- **Air interface protocol**
 - EPCGlobal Class1 Gen2 ISO 18000-6C
- **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 random 96bit EPC in every label:
- **Read range (2W ERP)***
 - On metal up to 7 m / 23 ft
 - On plastic up to 3 m / 10 ft
 - On liquid up to 5 m / 16 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.

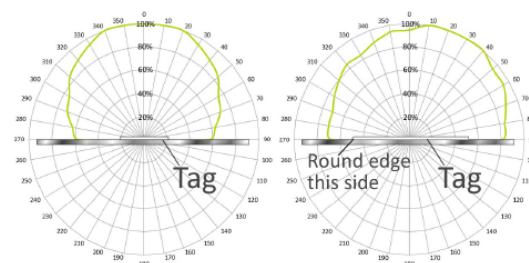
Mechanical Specification

- **Label surface**
 - Printable white PET, Zebra 5095 resin ribbon recommended.
- **Background adhesive**
 - High tack adhesive with excellent adhesion to all surfaces including low surface energy plastics.
- **Weight**
 - 0,9 g
- **Delivery format**
 - 400 pcs good labels on reel, bad ones marked with "XXX" printing.
Typical yield >95%.

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**
 - 30,48 mm / 1.2"
- **Reel core inner diameter**
 - 76 mm / 3"
- **Tag dimensions**
 - 60 x 25 x 1.4 mm / 2.36 x 0.98 x 0.055"

Radiation Patterns



Environmental Resistance

- **Operating temperature**
 - -35°C to +85°C / -31°F to +185°F
- **Peak temperature**
 - +140°C / 284°F for 10min
- **Ambient temperature**
 - IP68, tested for 5 hours in 1m deep water
- **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 Sulfuric acid (10%, pH 2) exposure
 - 168h Motor oil exposure
 - 168h Salt water (salinity 10%) exposure
 - 2h NaOH (10%, pH 13) exposure
 - Acetone should be avoided
- **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 +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. Adhesive of Confidex Silverline Blade II+™ is having very high initial tack, meaning that it adheres in seconds and reaches close to final bonding strength in minutes. Adhesive is also suitable for other than metallic surfaces.

Optimal read range is achieved when is metal on the non-wrapped side of the label, like shown in the below picture.

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:** 10039973
- **Product name:** Silverline Blade II+™ M780 Global

Industry Compliance



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