

Mercury Metal Skin



The Mercury Metal Skin is a revolutionary RFID smart label that works on both metallic and non-metallic assets. It's a high performance, cost efficient RFID metal tag that is lightweight, flexible and versatile.

The label can incorporate human readable printing, barcodes, and graphics and is extremely low profile and flexible to fit curved surfaces such as the contour of metallic cylinders and drums.



Global frequency



Performs reliably on and off metal



Printable



Lightweight and flexible with paper-thin profile



Cost effective label for metallic assets



- Product authentication
- IT asset and laptop tracking
- Global supply chain management
- Cylinder tracking
- Foil-based packaging tracking

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Performance Characteristics

| | |
|-----------------------------------|---------------------------|
| Read range on metal ¹ | Up to 16 ft (5 m) |
| Read range off metal ¹ | Up to 13 ft (4 m) |
| Polarization | Linear |
| Mounting system | High performance adhesive |

1. Actual read range may vary based upon use case and antenna power.

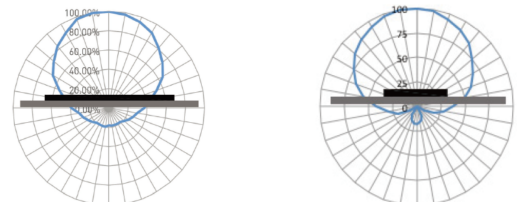
Functional Specifications

| | |
|-----------------------------|---|
| RF protocol | EPC global Class 1 Gen2 |
| Frequency | 902-928 , 865-868 (Global) |
| IC type (chip) ¹ | Impinj Monza 4E ² |
| Memory | 496-EPC bits, 128 -bit user memory, 48-bit serialized TID |
| Face material | White thermal transfer face stock |

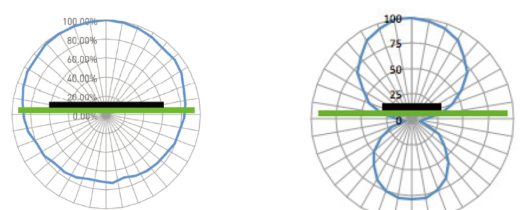
1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.
2. This product utilizes an Impinj M4E chip; each tag will have the exact same EPC number and a unique TID number. Xerafy will verify the Read/Write function of each chip memory before shipment.

Radiation Pattern

On metal-Horizontal / Vertical



Off metal-Horizontal / Vertical



Environmental Specifications

| | |
|-------------------------|---|
| Operational temperature | -40°C to +85°C |
| Survival temperature | -40°C to +85°C (long term) |
| Shock (drop) | 3 ft (1 m) to concrete/ granite up to 100 cycles |
| Vibration | MIL-STD-810G |
| Compression strength | 92 psi (634 kPa) |
| Printer compatibility | Sato CL4NX |

Industry Compliance

| | |
|------------|-------------------------|
| RoHS | EU Directive 2011/65/EU |
| CE | Yes |
| ATEX/IECEX | Compliant |
| Warranty | 1 year |

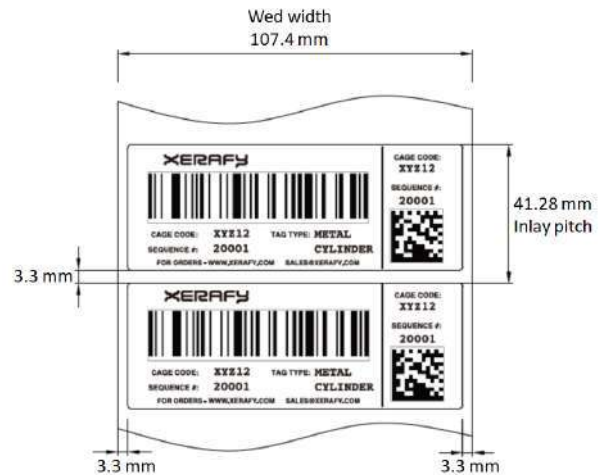
Order Information

| | |
|------------------|----------------------------------|
| X50A0-GL100-M4 | Mercury Metal Skin Label in Roll |
| Optional service | encoding / printing |



Product Dimensions and Weight

| | |
|-------------------|-------------------|
| Dimensions (in) | 4 x 1.5 x 0.04 |
| Tolerance | +/- 0.004 |
| Dimensions (mm) | 101.6 x 38 x 0.98 |
| Tolerance | +/- 0.1 |
| Delivery format | On roll |
| Quantity per roll | 500 |
| Weight(roll) | 4.85 lbs (2.2 kg) |



Installation Instructions

Instructions for optimal performances:

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc, debris that may affect adhesion.
2. Handle the label by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the label in desired tagging location and firmly apply even pressure to the label for 5 seconds.
4. Do not disturb newly mounted label for at least 15 minutes to ensure proper adhesive seating.

About Xerapy

Xerapy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

For Product inquiries: sales@xerapy.com
Singapore | China | US | UK

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