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

Performance Characteristics

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

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

Functional Specifications

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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.

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

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Radiation Pattern

On metal-Horizontal / Vertical

Off metal-Horizontal / Vertical

RoHS 2002/95/EC CE Ex REACH COMPLIANCE
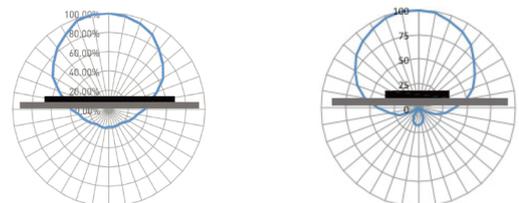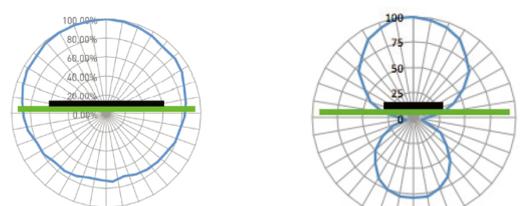
Environmental Specifications

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

Product Dimensions and Weight

Dimensions (in)	4 x 1.5 x 0.03
Tolerance	+/- 0.004
Dimensions (mm)	101.6 x 38 x 0.76
Tolerance	+/- 0.1
Delivery format	On roll
Quantity per roll	500
Weight(roll)	4.85 lbs (2.2 kg)

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

Wed width
107.4 mm

41.28 mm
Inlay pitch

3.3 mm

3.3 mm   3.3 mm
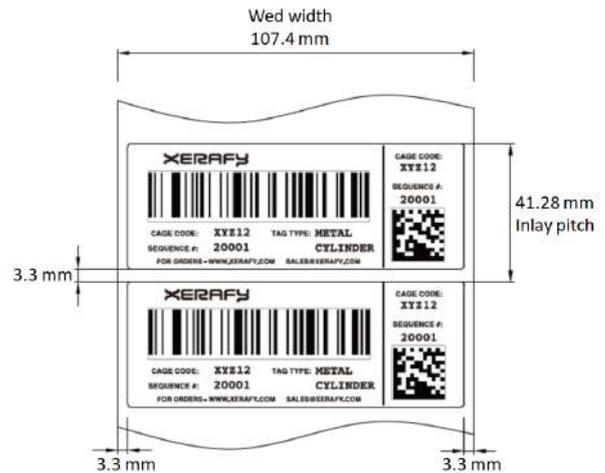
Installation Instructions

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 Xerafy

Xerafy 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@xerafy.com
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