

Mercury Metal Skin



The Mercury METAL SKIN is a high-performance RAIN RFID label that works on and off-metal. The cost-efficient RFID label is optimized for on-site printing and encoding thanks to its lightweight, flexible, and low-profile design. Its large printable area makes it an ideal solution for asset tracking systems that deploy RF identification alongside human and computer-readable information like barcodes and graphics.



Performs reliably on and off metal



8M on-metal



Printable



IP68



Cost effective label for metallic assets



- Warehouse Management
- RTI Management
- Manufacturing WIP
- Data Center Automation
- IT Assets Inventory
- Medical Supplies

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Performance Characteristics

Read range on metal ¹	Up to 26 ft (8 m)
Read range off metal ¹	Up to 19 ft (6 m)
Polarization	Linear
Mounting system	3M467MP adhesive

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

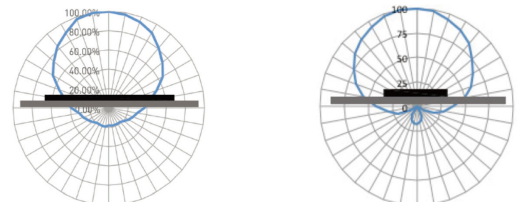
Functional Specifications

RF protocol	EPC global Class 1 Gen2
Frequency	902-928 (US) ; 865-868 (EU)
IC type (chip) ¹	NXP Ucode 9
Memory	96 bits EPC
Face material	White thermal transfer face stock

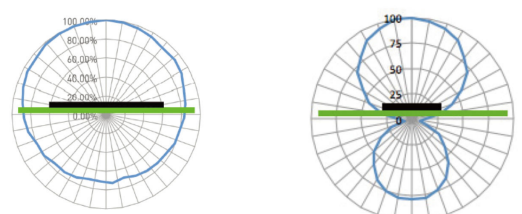
1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

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
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 Plus Postek TX2r/3r/6r

Industry Compliance

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

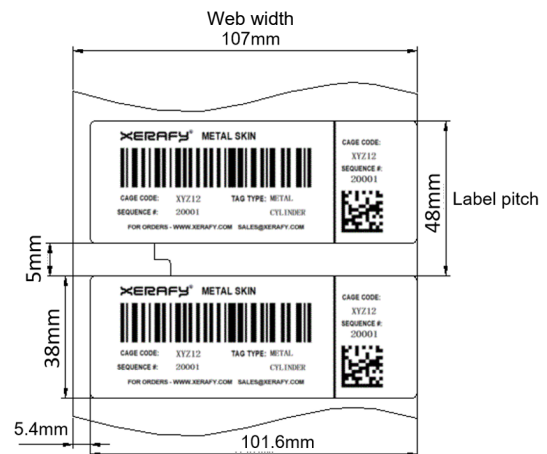
Order Information

X51A0-US100-U9	Mercury Metal Skin US
X51A0-EU100-U9	Mercury Metal Skin EU
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 1.0
Tolerance	+/- 0.1
Delivery format	On roll
Quantity per roll	300
Weight(roll)	1.98 lbs (0.9 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 Xerafy

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

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