



METAL SKIN MERCURY 86 MAX

Technical Specifications

- **RF protocol** ISO/IEC 18000-6C (EPC Gen2)
- **Frequency** 902-928 MHz (US)
- **IC type (chip)**¹ Impinj Monza R6-P
- **Chip memory**² 128 bits EPC; 96 bits TID; 32 bits user memory
- **Read range fixed**³
Up to 42.65 ft (13 m) on metal
Up to 32.81 ft (10 m) off metal
- **Read range handheld**³
Up to 22.97 ft (7 m) on metal
Up to 19.69 ft (6 m) off metal
- **Polarization** Linear

Key Features

- + **13 m read range:** read from long distance
- + **Flexible label:** for curved surfaces
- + **Printable:** human and computer-readable
- + **IP68 rating:** waterproof

Applications

- Reusable packaging and containers
- Global supply chain
- Logistics
- WIP inventory

Environmental Specifications

Temperatures



- Operational -40°C to +85°C
-40°F to +185°F
- Survival -40°C to +85°C
-40°F to +185°F

- **IP rating** IP68
- **Storage Humidity** 50 ± 15%RH
- **Vibration** MIL-STD-810G
- **Printer compatibility** TSC Printronix T6000e, Zebra ZT411R, SATO CL4NX, Postek TX3r, etc.
- **Warranty** 1 year

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

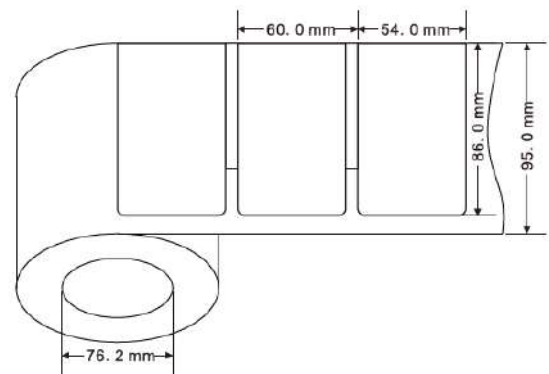
² EPC can be re-programmed or permanently locked, can not be password protected. TID is locked and unique at the point of manufacturing.

³ Actual read range may vary based upon use case and antenna power.



Physical Specifications

- **Material** White thermal transfer face stock
- **Dimensions (in)¹** 3.39 x 2.13 x 0.05
- **Dimensions (mm)²** 86 x 54 x 1.25
- **Packaging** 150pcs/roll
- **Weight (roll)** 1.65 lbs (0.75 kg)



Mounting Systems

- 3M industrial adhesive

Installation Instructions

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 the newly mounted label for at least 15 minutes to ensure proper adhesive seating.

¹ Tolerance: Length/Width= +/- 0.02; Thickness= +/- 0.008

² Tolerance: Length/Width= +/- 0.50; Thickness= +/- 0.200

Industry Compliance



Order Information

METAL SKIN Mercury 86 Max US: X8654-US011-R6P

Customization Options

Encoding

Printing

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