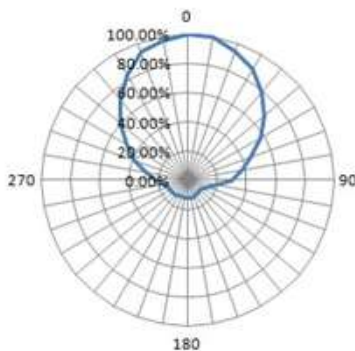




MICRO MEDICAL

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 860-928 MHz (Global)
- **IC type (chip)**¹ Impinj M781
- **Chip memory**² 128 bits EPC, 96 bits TID, 512 bits user memory
- **Read range on metal**³ Up to 13.12 ft (4 m)
- **Read range off metal**³ Up to 16.40 ft (5 m)
- **Write cycles** 100,000 Times at 77°F (25°C)
- **Polarization** Linear
- **Radiation pattern on metal**



Key Features

- + **Autoclave proof:** for repeated cleaning and sterilization cycles
- + **Biocompatible material:** for safety
- + **IP69K:** high-pressure washing
- + **Stainless steel inserts:** rugged mounting systems
- + **Multi-surface:** for metal and plastic assets

Applications

- **Surgical tray management**
- **Medical devices tracking**

Environmental Specifications

Temperatures



- **Operational** -40°C to +85°C
- **Survival** -40°C to +150°C

- **IP rating** IP69K
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

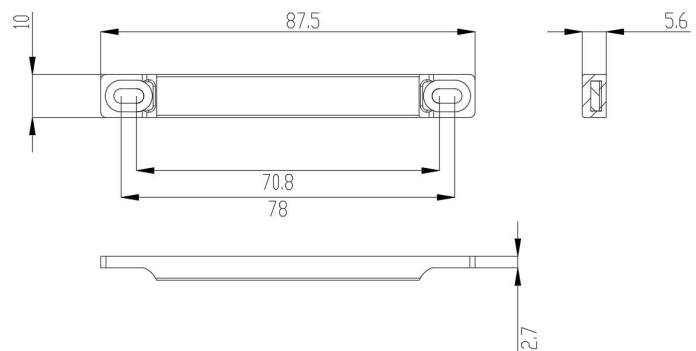
² EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Handheld reader



Physical Specifications

- **Material** Industry grade polymer, Stainless steel
- **Dimensions (mm)**¹ 87.50 x 10 x 5.60
- **Rivet hole diameter** L: 7 mm, R: 1.70 mm
- **Weight** 8.50 g

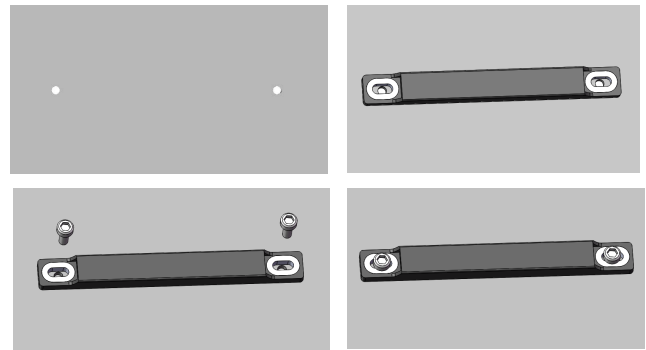


Mounting Systems

- Pop rivets
- Screws
- Cable and zip ties
- Industrial adhesives (optional)

Installation Instructions

1. Use M3 rivets for attachment:
 - Drill two holes (ø 3.50) in the metal surface, pitch: 70.80-78.00 (± 0.20) mm.
 - Utilize M3 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
2. Use M3 screws for attachment:
 - Drill two holes (ø 2.20) in the metal surface, pitch: 70.80-78.00 (± 0.20) mm.
 - Perform a M3 thread tapping procedure.
 - Utilize M3 screws to securely attach the tag to the metal surface.



¹ Tolerance: +/- 0.02; +/- 0.50

Industry Compliance



Order Information

MICRO Medical (Global): X0353-GL100-M781

Customization Options

Encoding

Laser Etching

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