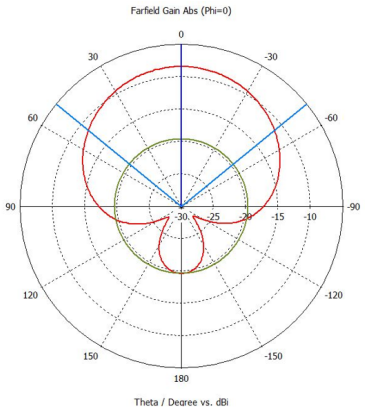


MICRO MEDICAL

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type** (chip)[1] NXP UCODE 9
- **Chip memory**[2] 96 bits EPC, 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range** on metal[3] Up to 13.12 ft (4m)
- **Read range** off metal[3] Up to 22.97 ft (7 m)
- **Polarization** Linear
- **Radiation pattern on metal**



Key Features

+ **Autoclave-proof:** withstands repeated sterilization cycles
+ **Chemical resistance:** withstands exposure to harsh sterilization chemicals for long-term durability
+ **Medical-grade materials:** constructed with biocompatible materials, safe for use in medical applications
+ **IP69K:** waterproof for rigorous cleaning and sterilization
+ **Multi-surface:** for installation on metallic and plastic assets

Applications

- **Surgical tray management**
- **Medical device tracking**

Environmental Specifications

Temperatures

- Operational -40°C to +85°C
  -40°F to +185°F
- Survival -40°C to +150°C
  -40°F to +302°F
- Sterilization cycles 134°C(273°F) and 210 Kpa (4 mins) for over 1000 cycles

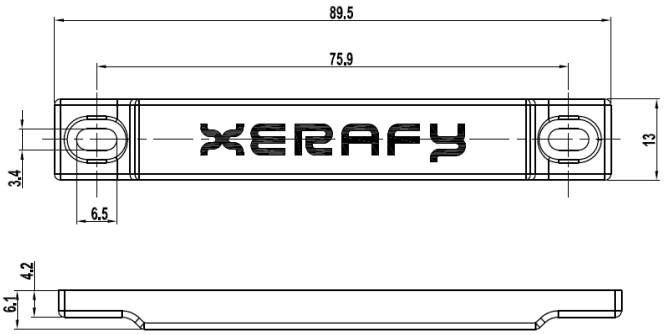
- **IP rating** IP68, IP69K
- **Shock** 3ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[1] The chip data retention is up to 20 years, based on chip operating under general environment conditions.
[2] EPC can be re-programmed, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Handheld reader

RFIDCanada
Automating Identification

Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (mm)**[1] 89.50 x 13 x 6.10
- **Rivet hole diameter** L: 6.50 mm, R: 1.70 mm
- **Color** Gray
- **Weight** 0.32 oz (9 g)



Mounting Systems

- Pop rivets
- Screws
- Cable and zip ties

Installation Instructions

1: Attachment with M3 Rivets

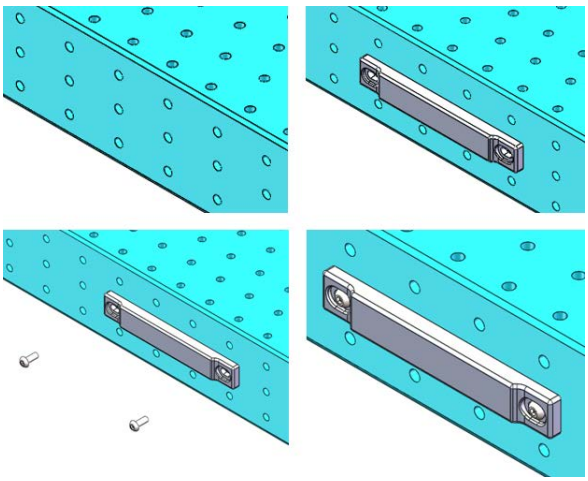
Align the tag with the tray holes, maintaining a hole pitch of 72.80–79.00 mm (±0.20 mm).

Use M3 rivets with a rivet gun to securely fasten the tag to the tray surface.

2: Attachment with M3 Screws

Align the tag with the tray holes, maintaining the same hole pitch of 72.80–79.00 mm (±0.20 mm).

Secure the tag using M3 screws and nuts.



[1] Tolerance: +/- 0.02; +/- 0.50

Industry Compliance

Order Information

MICRO Medical (US): X0353-US100-U9	MICRO Medical (EU): X0353-EU100-U9

Customization Options

Encoding	Printing
Laser Marking	ATEX Certified Version

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