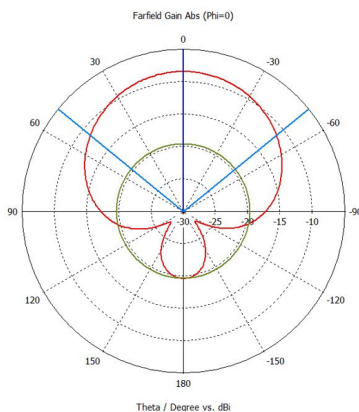




## MICRO MEDICAL

### Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US);  
865-868 MHz (EU)
- **IC type(chip)**<sup>1</sup> NXP UCODE 9
- **Chip memory**<sup>2</sup> 96 bits EPC, 96 bits TID
- **Read range on metal**<sup>3</sup> Up to 13.12 ft (4m)
- **Read range off metal**<sup>3</sup> 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
- Survival -40°C to +150°C
- Sterilization cycles 134°C and 210 Kpa (4 mins) for over 600 cycles

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

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

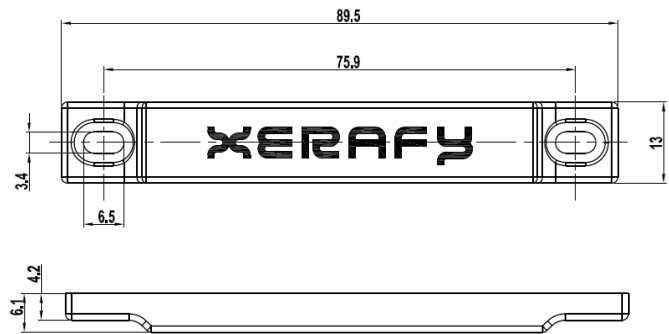
<sup>2</sup> EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

<sup>3</sup> Handheld reader



## Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (mm)**<sup>1</sup> 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 ( $\pm 0.20$  mm).

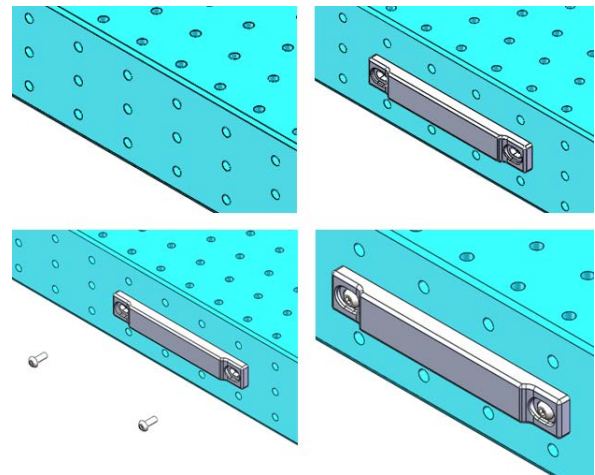
Use M3 rivets with a rivet gun to securely fasten the tag to the tray surface.

### 2: Attachment with M3 Screws

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

Secure the tag using M3 screws and nuts.

<sup>1</sup> Tolerance:  $\pm 0.02$ ;  $\pm 0.50$



## Industry Compliance



## Order Information

MICRO Medical (US): X0353-US100-U9

MICRO Medical (EU): X0353-EU100-U9

## Customization Options

Encoding

Laser Marking

Printing

ATEX Certified Version

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