MICRO MEDICAL
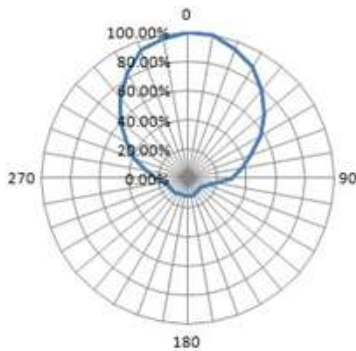
Technical Specifications

- **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
- **Read range** on metal[3] Up to 14.76 ft (4.50 m)
- **Write cycles** 100,000 Times at 77°F (25°C)
- **Polarization** Linear
- **Radiation pattern on metal**

Key Features

- **+** **Co-developed with medical device manufacturers:** survive reprocessing cycles (chemicals, steam, autoclave)

- **+** **Medical-grade materials:** autoclave-proof

- **+** **IP69K:** high-pressure washing

- **+** **On metal and plastics:** up to 4.50 meters read range

Applications

- Surgical tray management

- Medical device 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.
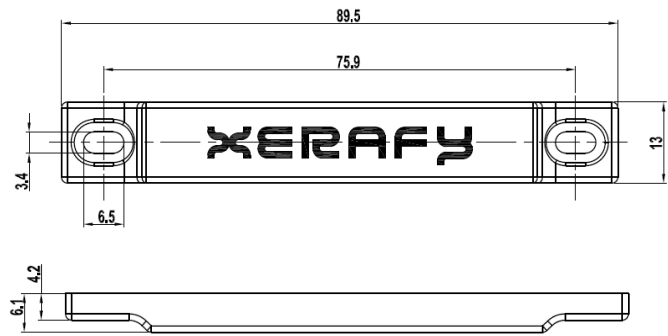[2] EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Handheld reader

Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (mm)**[1] 89.50 x 13 x 6.10
- **Rivet hole diameter** L: 6.50 mm, R: 1.70 mm
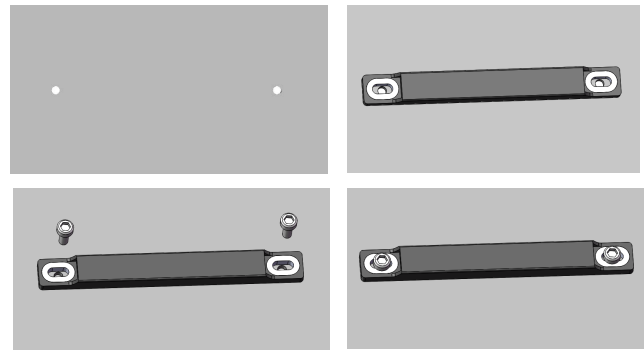- **Weight** 9.20 g

Mounting Systems

- Pop rivets
- Screws
- Cable and zip ties

Installation Instructions

1. Use M3 rivets for attachment:
- Drill two holes (ø 3.50) in the metal surface, pitch: 72.80-79.00 (± 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: 72.80-79.00 (± 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 (US): X0353-US100-U9	MICRO Medical (EU): X0353-EU100-U9

Customization Options

Encoding	Printing
Laser Marking	