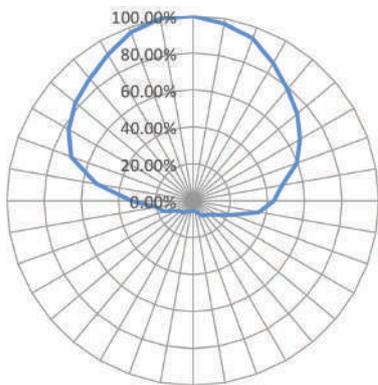




# MICRO AUTOCLAVABLE

## 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> Alien Higgs 9
- **Chip memory**<sup>2</sup> 96 bits EPC; 48 bits TID; 688 bits user memory
- **Read range fixed**<sup>3</sup> Up to 32.81 ft (10 m)
- **Read range handheld**<sup>3</sup> Up to 22.97 ft (7 m)
- **Polarization** Linear
- **Radiation pattern on metal**



## Key Features

- + **Autoclave proof:** withstand cleaning and sterilization cycles
- + **150°C:** withstand high temperatures
- + **688 bits user memory:** data storage
- + **Stainless steel inserts:** rugged mounting systems

## Applications

- **Autoclave sterilization**
- **Surgical trays**
- **Medical devices**
- **Healthcare equipment**

## Environmental Specifications

### Temperatures

- Operational -40°C to +85°C
- Survival -40°C to +150°C
- High temperature cycle 150°C (600 hours)

### Chemicals<sup>4</sup>

- 24h H<sub>2</sub>SO<sub>4</sub> (10% sulfuric acid)
- 24h HNO<sub>3</sub> (10% nitric acid)
- 24h H<sub>3</sub>PO<sub>4</sub> (20% phosphoric acid)
- 24h H<sub>2</sub>O<sub>2</sub> (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **IP rating** IP69K
- **Compression strength** 181 psi (1250 kPa)
- **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.

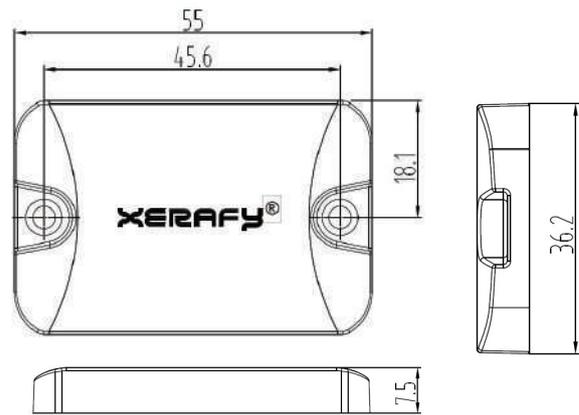
<sup>3</sup>Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

<sup>4</sup>The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.



## Physical Specifications

- **Material** Industry grade polymer;
- 316L Stainless steel, Silicone
- **Dimensions (in)**<sup>1</sup> 2.01 x 1.43 x 0.30
- **Dimensions (mm)**<sup>1</sup> 55 x 36.20 x 7.50
- **Weight** 0.92 oz (26 g)
- **Packing information** 76 pcs /one box

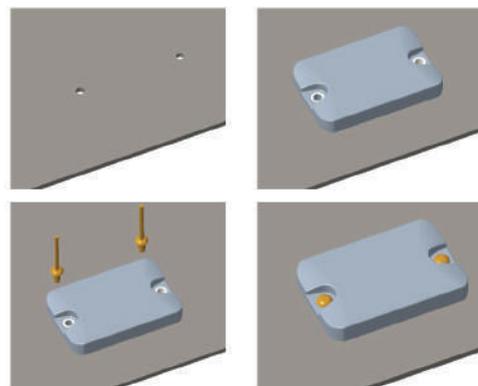


## Mounting Systems

- Pop rivets
- Screws

## Installation Instructions

1. Use M3 rivets for attachment:
  - Drill two holes (ø 3.50) in the metal surface, pitch: 45.60 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: 45.60 mm.
  - Perform a M3 thread tapping procedure.
  - Utilize M3 screws to securely attach the tag to the metal surface.



<sup>1</sup>Tolerance: +/- 0.02; +/- 0.50 mm

## Industry Compliance



## Order Information

MICRO Autoclavable US: X1130-US140-H9

MICRO Autoclavable EU: X1130-EU140-H9

## Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

Metal Backplate

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