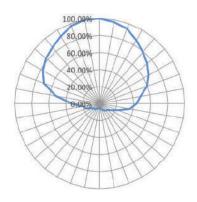




AUTOCLAVABLE ROSWELL

Technical Specifications

- RF protocol EPC global Class 1 Gen 2
- Frequency 902-928 MHz (US); 865-868 MHz (EU)
- IC type (chip)¹ Alien Higgs 9
- **Chip memory** 96 bits EPC; 48 bits TID; 688 bits user memory
- Read range fixed² Up to 16.40 ft (5 m)
- Read range handheld² Up to 11.48 ft (3.50 m)
- Polarization Linear
- Radiation pattern on metal



Key Features

- + 250°C: withstand high temperatures
- + 180° readable: wider read angles
- + Stainless steel case: withstand high pressures, compression, chemicals
- + Backplate: secure mounting options
- + IP69K rating: for autoclaves

Applications

- Sterilizable surgical trays
- Medical devices
- Oil & Gas valve/wellhead management
- Food processing plants
- Automotive manufacturing

Environmental Specifications

Temperatures



- Operational -40°C to +85°C
- Survival -40°C to +250°C

Chemicals³



- 24h H₂SO₄ (10% sulfuric acid)
- 24h HNO3 (10% nitric acid)
- 24h H₃PO₄ (20% phosphoric acid)
- 24h H₂O₂ (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **IP rating** IP68, IP69K
- Compression strength 1145 psi (7900 kPa)
- Shock 3ft (1 m) to concrete/granite
- Vibration MIL-STD-810G
- Warranty 1 year

Version No: 24 05 07

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



 $^{^{}m 1}$ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

 $[\]frac{2}{2}$ Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



Physical Specifications

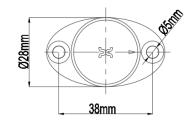
- Material Stainless steel, Highperformance engineered polymer
- **Dimensions (in)**¹ 1.89 × 1.10 × 0.53
- **Dimensions (mm)**¹ 48 × 28 × 13.50
- **Weight** 1.55 oz (44 g)

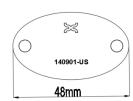
Mounting Systems

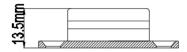
- · Welding
- · Rivets
- · Screws
- · Cable ties

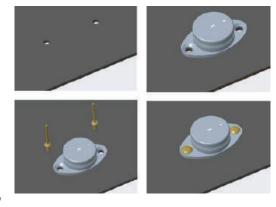
Installation Instructions

- 1. Position the tag in alignment with the metal surface's length, ensuring that the "X" symbol is parallel to the same direction.
- 2. Use M4 rivets for attachment:
- •Drill two holes (Ø 5) in the metal surface, pitch: 38 mm.
- · Utilize M4 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
- 3. Use M4 screws for attachment:
- •Drill two holes (ø 3.20) in the metal surface, pitch: 38 mm.
- · Perform a M4 thread tapping procedure.
- . Utilize M4 screws to securely attach the tag to the metal surface.









Industry Compliance

















Order Information

Autoclavable Roswell US: X1114-US143-H9

Autoclavable Roswell EU: X1114-EU143-H9

Customization Options

Encoding
Laser Marking

Printing

Version No: 24 05 07

ATEX Certified Version

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¹ Tolerance: +/- 0.02; +/- 0.50