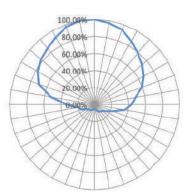
XEBUL



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-3
- **Chip memory** 96 bits EPC; 64 bits unique TID; 512 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

• IP rating IP68, IP69K

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)
- Vibration MIL-STD-810G
- Warranty l year
- Compression strength 1145 psi (7900 kPa)
 Shock 3ft (1 m) to concrete/granite

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

² Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.
 ³ The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on chemical resistance.

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XEBULA

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.

¹ Tolerance: +/- 0.02; +/- 0.50

Industry Compliance











Order Information

328mm

5mm

Autoclavable Roswell US: X1114-US143-H3

Autoclavable Roswell EU: X1114-EU143-H3

Customization Options

Encoding

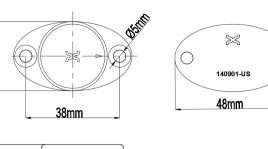
Laser Marking

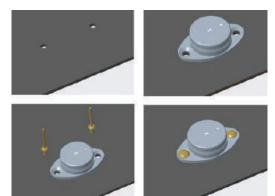
Printing

ATEX Certified Version

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