Roswell



Roswell, the first tag of its kind, uses only its metal exterior as an antenna. It's ATEX certified for hazardous environments in the oil and gas and automotive industries. Its patent-pending antennafree design enables item-level tracking for demanding applications.





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Survives extended high temp exposure







Performance Characteristics		
Read range (handheld)1	Up to 11.5 ft (3.5 m)	
Read range (fixed) ¹	Up to 16.4 ft (5 m)	
Polarization	Linear	
Mounting system	Screws (Rivet hole, ø 0.19 in (ø 5 mm)), Cable tie	

 Performance based on standard testing methodologies.
Performance may vary depending on environmental factors and reader output power.

Functional Specifications		
RF protocol	EPC global Class 1 Gen2	
Frequency	902-928 (US); 865-868 (EU)	
IC type (chip) ¹	Alien Higgs-3	
Memory	96-EPC bits, 64-bit unique TID, 512 -bit user memory	
Material	Aluminum 6061-T6	

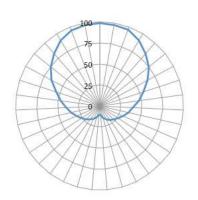
1. The chip data retention is up to 50 years, based on chip operating under general environment conditions.

· Oil & Gas Valve / Wellhead Management

- Food Processing Plants
- Automotive Manufacturing

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Radiation Pattern





Environmental Specifications		
Operational temperature	-40°C to +85°C	
Survival temperature	-40°C to +250°C	
Chemical resistance	Various caustic chemicals ¹	
IP rating	IP69K	
Compression strength	115 psi (793 kPa)	
Shock (drop)	3 ft (1 m) to concrete/granite	
Vibration	MIL-STD-810G	

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

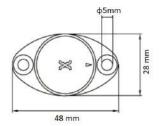
Industry Compliance		
RoHS	EU Directive 2011/65/EU	
CE	Yes	
ATEX/IECEx	Compliant	
Warranty	1 year	

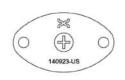
Order Information		
X1114-US101-H3	Roswell w/ Bracket US	
X1114-EU101-H3	Roswell w/ Bracket EU	
Optional service	Encoding / Printing / Laser etching	

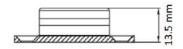


Product Dimensions and Weight

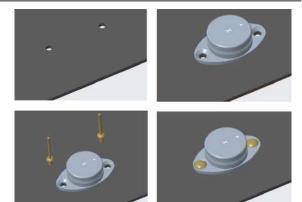
Dimensions (in)	1.89 x 1.10 x 0.53
Tolerance	+/- 0.02
Dimensions (mm)	48 x 28 x 13.5
Tolerance	+/- 0.5
Weight	0.74 oz (21 g)







Installation Instructions



- 1. Put the tag orientation with symbol "X" in parallel to length of the metal surface.
- 2. When the tag is used in harsh environment, M4.8 screw / ϕ 4.8 rivet mounting is a suitable option. (screw hole: 0.19 in/4.5 mm, rivet hole: 0.19 in / 5 mm)

About Xerafy

Xerafy designs and manufactures the world's toughest RFID tags to power Industrial IoT applications in Aerospace, Oil & Gas, Automotive, Healthcare and Manufacturing.

For Product inquiries: sales@xerafy.com Singapore | China | US | UK

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