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Xerafy Roswell
EPC UHF RFID Metal Tag

Roswell, the first tag of its kind, uses only its metal exterior as an antenna. The patent-pending tag is constructed of two cylindrical metal cases with a thin high temperature substrate between them. While existing products in the market may use a tag packaged inside a metal case, Roswell is completely different. Because there is no RFID tag packaged inside Roswell, the antenna-free design ensures reliability and durability by eliminating the risk of tag failure from high impact and vibration. Roswell also eliminates the need for a spacer between the tag and the mounting surface or the need for strict welding or attachment procedures. There is absolutely no transmission loss associated with the way the tag is attached. Roswell is designed for quick and convenient attachment and can be easily bolted or tie-wrapped to an asset.

Features:

- Withstands high impact and vibration
- 180 degree read orientation
- Survives extended high temperatures exposure
- Withstands sandblasting and high pressure washdowns

Applications:

Oil & Gas Valve / Wellhead Management

Food Processing Plants

Automotive Manufacturing

Roswell
P/N: X1114-US101-H3 / X1114-EU101-H3

Roswell is ATEX certified for hazardous environments in the oil and gas and automotive industries.

Specifications:

EPC Class 1 Gen 2 (ISO 18000-6C)	512-bit user memory
Passive UHF RFID transponder	64-bit TID; 96-EPC bits, extendible to 480 bits
Frequency:	902-928 MHz (US), 866-868 MHz (EU)
Dimensions / tolerance (mm):	48 x 28 x 13.5 (+/- 0.5)
Dimensions / tolerance (in):	1.89 x 1.10 x 0.53 (+/- 0.02)
Dimensions w/o bracket / tolerance (mm):	ø 28 x 11 (+/- 0.5)
Dimensions w/o bracket / tolerance (in):	ø 1.10 x 0.43 (+/- 0.02)
Weight / tolerance:	0.74 oz / 21 g (+/- 10%)
Weight / tolerance:	0.51 oz / 14.4 g (+/- 10%) w/o bracket
Read range on metal (2W ERP):	Up to 16.4 ft (5 m)
Operating temperature:	-40°F to + 185°F (-40°C to + 85°C)
Application temperature:	-40°F to + 482°F (-40°C to + 250°C)
Material:	Aluminum 6061-T6
Attachment:	Cable tie, rivet hole ø 0.19 in (ø 5 mm)
IP classification:	IP69K
Industry compliance:	RoHS, CE, ATEX/IECEx