# XERAFY

## PICO On

Xerafy's PICO On tag is designed to fit small metallic assets while exceeding competitive read range performance thanks to our patented printed antenna technology.

The ceramic tag is ideally suited to harsh environments where its exceptional durability matches the life of assets in the field.

Fits small size

Powerful on-metal performance

Exceptional durability

Harsh environments

Hi-Temp

- Hand Tools for Manufacturing, Aerospace, Railways, Nuclear, Military, Oil & Gas
- Warehouse Automation
- RTIs Management
- Data Centers

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### Performance Characteristics

| | |
|---|---|
| Read range (handheld)[1] | Up to 7 ft (2 m) |
| Read range (fixed)[1] | Up to 10 ft (3 m) |
| Polarization | Linear |
| Attachment | 3M 9495 LE Adhesive |

1. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.
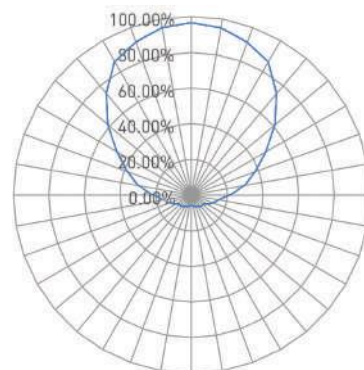
### Function l Specifications

| | |
|---|---|
| RF protocol | EPC global Class 1 Gen2 |
| Frequency | 902-928 (US) ; 865-868 (EU) |
| IC type (chip)[1] | NXP UCODE 8 |
| Memory[2] | 128 bits EPC,96 bits TID, User memory (optional) |
| Material | Ceramic |

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

2. EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

### Radiation Pattern

## Environmental Specifications

| | |
|---|---|
| Operational temperature | -30°C to +85°C |
| Survival temperature | -40°C to +150°C (long term) |
| Peak temperature | +200°C |
| IP rating | IP68 |
| Shock (drop) | 3 ft (1 m) to concrete/granite |
| Vibration | MIL-STD-810G |

## Industry Compliance

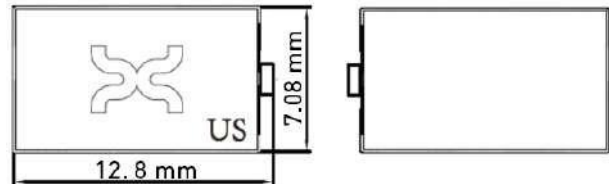| | |
|---|---|
| RoHS | EU Directive 2011/65/EU |
| CE | Yes |
| ATEX/IECEx | Compliant |
| Warranty | 1 year |

## Order Information

| | |
|---|---|
| X3110-US001-U8 | PICO On US |
| X3110-EU001-U8 | PICO On EU |
| Optional service | Encoding / Printing / Laser Etching |

## Product Dimensions and Weight

| | |
|---|---|
| Dimensions (in) | 0.5 x 0.28 x 0.12 |
| Tolerance | +/- 0.004 |
| Dimensions (mm) | 12.8 x 7.08 x 3.08 |
| Tolerance | +/- 0.1 |
| Weight | 0.05 oz (1.4 g) |

## Installation Instructions
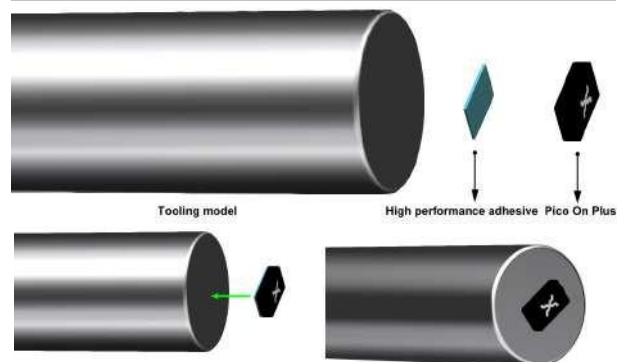
To obtain the maximum adhesion, the following steps should be taken:

1. Clean surface using Isopropyl alcohol, or equivalent solvent to ensure the surface is free of dirt, dust, oil, and other debris that may affect adhesion.
2. Peel adhesive liner from the back of the tag, ensuring the adhesive is not contacted.
3. Place tag in desired location and firmly apply even pressure for up to 30 seconds.
4. To ensure proper curing of adhesive, allow ample cure time of up to 12 hours before being handled.

### 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.

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