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

Performance Characteristics

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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.

Functional 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
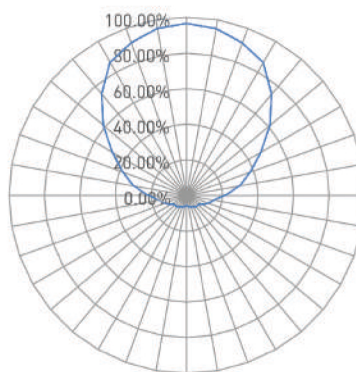
Environmental Specifications

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)
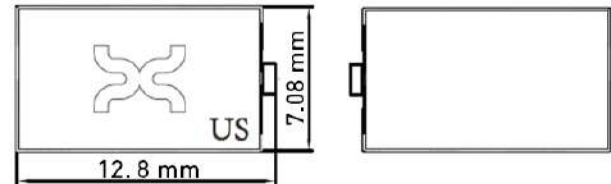
Installation Instructions

Tooling model   High performance adhesive Pico On Plus
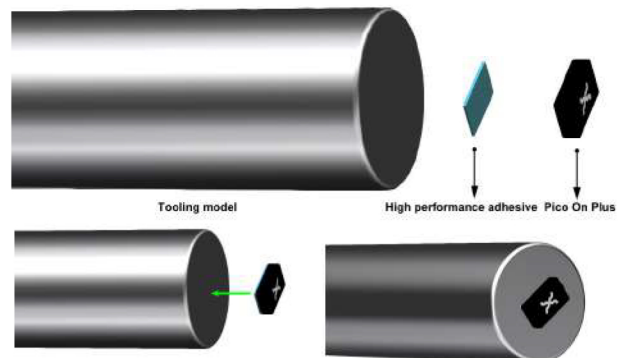
To obtain the maximum adhesion, the following steps should be taken:

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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