



PICO Mini

Technical Specifications

- **RF protocol** EPC Class1 Gen2, ISO18000-6C
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type**(chip)¹ NXP UCODE 8
- **Chip memory**² 128 bits EPC, 96 bits TID
- **Write Cycles** 100,000 Times
- **Read range**fixed³
 - PICO Mini 100: Up to 1.64 ft (0.50 m)
 - PICO Mini 150: Up to 9.84 ft (3 m)
 - PICO Mini 300: Up to 13.12 ft (4 m)
- **Read range**handheld³
 - PICO Mini 100: Up to 0.98 ft (0.30 m)
 - PICO Mini 150: Up to 4.92 ft (1.50 m)
 - PICO Mini 300: Up to 6.56 ft (2 m)
- **Polarization** Linear

Key Features

- + **3 product references:** fit on all metal tools
- + **Small and thin form factors:** as thin as 1mm
- + **Rugged:** for harsh conditions
- + **Cost-effective:** for large inventory

Applications

- **Hand tools for manufacturing, aerospace, railways, nuclear, military, Oil & Gas**
- **Weapon management**
- **Data centers**

Environmental Specifications

Temperatures



- **Operational** -40°C to +85°C
- **Survival** -40°C to +85°C

- **IP rating** IP68
- **Shock** 3 ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

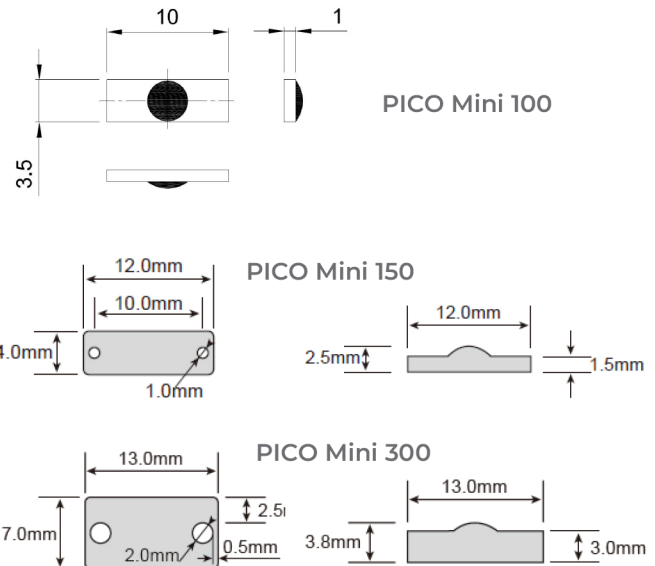
¹ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

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

³ On metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

Physical Specifications

- **Material** FR4 (PCB)
- **Dimensions (mm)¹**
 - PICO Mini 100: 10 x 3.50
 - PICO Mini 150: 12 x 4, hole: D1*2
 - PICO Mini 300: 13 x 7, hole: D2*2
- **Thickness (mm)¹**
 - PICO Mini 100: 1.00, 1.20 with IC bump
 - PICO Mini 150: 1.50, 2.50 with IC bump
 - PICO Mini 300: 3.00, 3.80 with IC bump
- **Color** Black
- **Weight**
 - PICO Mini 100: 0.004 oz (0.100 g)
 - PICO Mini 150: 0.007 oz (0.200 g)
 - PICO Mini 300: 0.030 oz (0.700 g)



Mounting Systems

- Epoxy
- Heat shrink tubing

Installation Instructions

Use epoxy for attachment:

- Choose a desired tagging location on metal surface and clean the surface, ensure the surface is free from dirt, dust, oil and misc, debris that may affect adhesion.
- Apply epoxy to the back of the tag.
- Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
- Do not disturb the newly mounted tag for at least 15 minutes to ensure proper adhesive seating.

¹ Tolerance: +/- 0.004; +/- 0.100

Industry Compliance



Order Information

PICO Mini 100 US: X1035-USP00-U8

PICO Mini 150 US: X1204-USP00-U8

PICO Mini 300 US: X1307-USP00-U8

PICO Mini 100 EU: X1035-EUP00-U8

PICO Mini 150 EU: X1204-EUP00-U8

PICO Mini 300 EU: X1307-EUP00-U8

Customization Options

Encoding

Industrial Adhesive

The information provided by Xerafy Singapore Pte. Ltd. is for general information purposes only. All information on the datasheet is provided in good faith. However we make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of any information on the datasheet.

Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of the product or reliance on any information provided on the datasheet. Your use of the product and your reliance on any information on the datasheet is solely at your own risk.

