PICO Mini 100/150/300

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** fixed[3]
  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** handheld[3]
  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 shocks, hits, drops, vibrations, water
- + **Cost-effective:** for large tool 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.
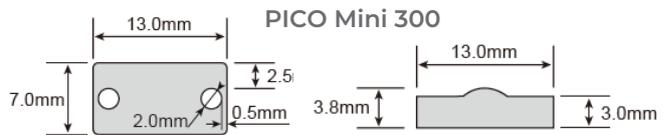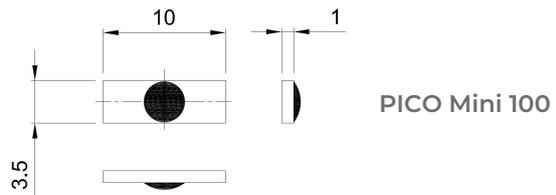[2] EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] On metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

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 on chip location
  PICO Mini 150: 1.50, 2.50 on chip location
  PICO Mini 300: 3.00, 3.80 on chip location
- **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)

PICO Mini 100

PICO Mini 150

PICO Mini 300

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 100 EU: X1035-EUP00-U8
PICO Mini 150 US: X1204-USP00-U8	PICO Mini 150 EU: X1204-EUP00-U8
PICO Mini 300 US: X1307-USP00-U8	PICO Mini 300 EU: X1307-EUP00-U8

Customization Options

Encoding