



MICRO HEAT

Technical Specifications

- **RF protocol** EPC Class1 Gen 2; 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
- **Data retention** 20 years
- **Read range** fixed³ on metal
Up to 26.25 ft (8 m) US
Up to 22.97 ft (7 m) EU
- **Polarization** Linear

Key Features

- + **215°C:** withstand high temperatures
- + **8m read range:** read from a distance
- + **Rugged mounting systems**
- + **IP68 rating:** waterproof

Applications

- High temperature production
- Work in process
- RTI management

Environmental Specifications

Temperatures



- **Operational** -40°C to +85°C
-40°F to +185°F
- **Survival** -55°C to +215°C (48 hours)
-67°F to +419°F

- **IP rating** IP68
- **Compression strength** 355 psi (2,450 kPa)
- **Shock** 1m to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

¹ The chip data retention is up to 20 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.

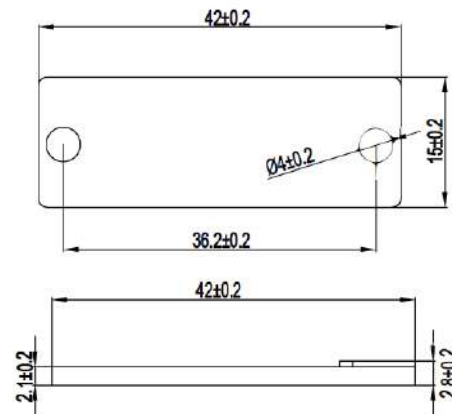
³ On metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

Physical Specifications

- **Material** High temperature polymer
- **Dimensions (mm)**¹ 42 x 15, hole $\varnothing$ 4
- **Thickness (mm)**¹ 2.10 (2.80 with IC bump)
- **Weight** 0.08 oz (2.20 g)

Mounting Systems

- Screws
- Cable ties
- Industrial adhesive



Installation Instructions

1. Use M3 screws for attachment:

- Drill two holes ($\varnothing$ 4) in the metal surface, pitch: 36.20 mm.
- Perform a M3 thread tapping procedure.
- Utilize M3 screws to securely attach the tag to the metal surface.

¹ Tolerance: +/- 0.008; +/- 0.200

Industry Compliance



Order Information

MICRO Heat US: X1220-US050-U8

MICRO Heat EU: X1220-EU050-U8

Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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