# MICRO HEAT
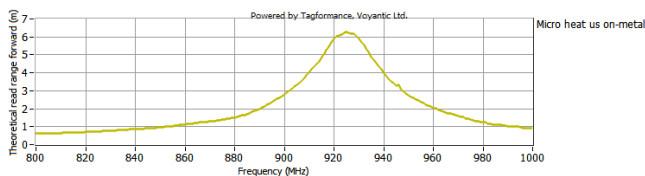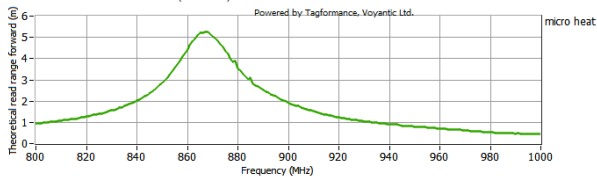
## Technical Specifications

- **RF protocol** EPC Class1 Gen 2; ISO18000-6C
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type** (chip)[1] Alien Higgs 4
- **Chip memory**[2] 128 bits EPC; 96 bits TID; 128 bits user memory
- **Write cycles** 100,000 Times
- **Read range** fixed[3] Up to 13.12 ft (4 m) on metal
- **Read range** handheld[3] Up to 10.50 ft (3.20 m) on metal
- **Read range on metal**

On metal (US):



Off metal (EU):



## Key Features

- **+ 215°C:** withstand high temperatures
- **+ 4 m 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
- Survival -55°C to +215°C (48 hours)

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

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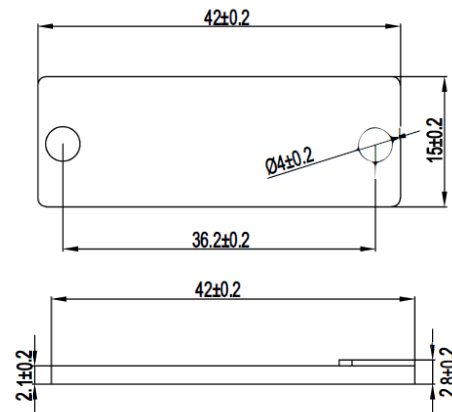[3] On metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

# Physical Specifications

- **Material** High temperature polymer
- **Dimensions (mm)[1]** 42 x 15, hole ø 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 (ø 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

RAIN RFID | RoHS 2002/95/EC | REACH COMPLIANCE | CE | ETSI | FC | ISO 9001:2015 | ISO 14001

# Order Information

| MICRO Heat US: X1220-US050-H4 | MICRO Heat EU: X1220-EU050-H4 |
|---|---|

# Customization Options

| Encoding | Printing |
|---|---|
| Laser Marking | Industrial Adhesives |
| ATEX Certified Version | |