

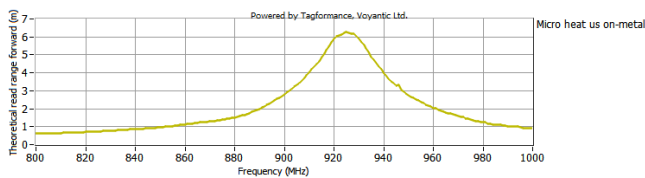


# MICRO HEAT

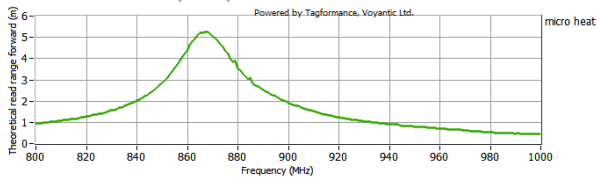
## Technical Specifications

- **RF protocol** EPC Class1 Gen 2; ISO18000-6C
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> Alien Higgs 4
- **Chip memory**<sup>2</sup> 128 bits EPC; 64 bits TID; 128 bits user memory
- **Write cycles** 100,000 Times
- **Read range fixed**<sup>3</sup> Up to 13.12 ft (4 m) on metal
- **Read range handheld**<sup>3</sup> 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

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

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

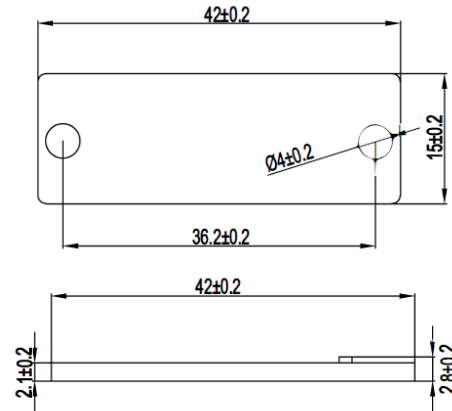
<sup>3</sup> On metal. Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

## Physical Specifications

- **Material** High temperature polymer
- **Dimensions (mm)<sup>1</sup>** 42 x 15, hole  $\varnothing$  4
- **Thickness (mm)<sup>1</sup>** 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.

<sup>1</sup>Tolerance: +/- 0.008; +/- 0.200

## Industry Compliance



## Order Information

MICRO Heat US: X1220-US050-H4

MICRO Heat EU: X1220-EU050-H4

## Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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