

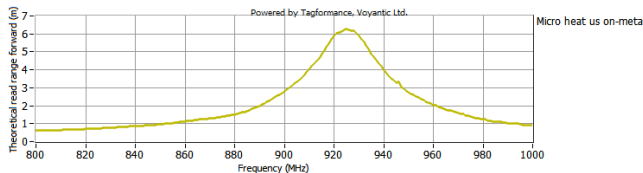


MICRO HEAT

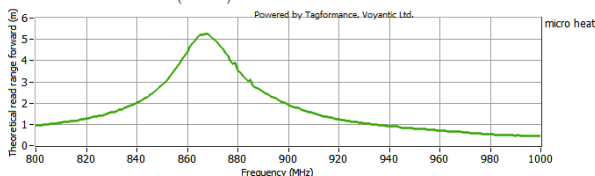
Technical Specifications

- **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; 64 bits TID; 128 bits user memory
- **Write cycles** 100,000 Times
- **Read range fixed**³ Up to 13.12 ft (4 m)
- **Read range handheld**³ Up to 10.50 ft (3.20 m)
- **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-810C
- **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 Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



Physical Specifications

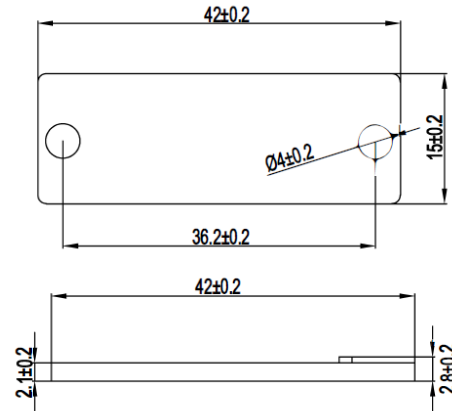
- **Material** High temperature polymer
- **Dimensions (mm)**¹ 42 x 15, hole \varnothing 4
- **Thickness (mm)**¹ 2.10 (2.80 with IC bump)
- **Weight** 0.08 oz (2.20 g)

Mounting Systems

- Screws
- 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.



¹Tolerance: +/- 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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