



HT3146 is the anti-metal tag designed for hostile environment, which could resist corrosion and high temperature for a very long time period. The heat withstanding is up to 250 degree centigrade.

HT3146 passed the following tests: high temperature test, alternating temperature test, corrosion (acidity/alkaline) testing, vibration test, Ultrasonic washing test.

And to make sure each shipment tags with excellent reliability and performance consistency, we do a series of tests before shipment, include testing by European tags comprehensive test instrument, encoding test of EPC and User memory.

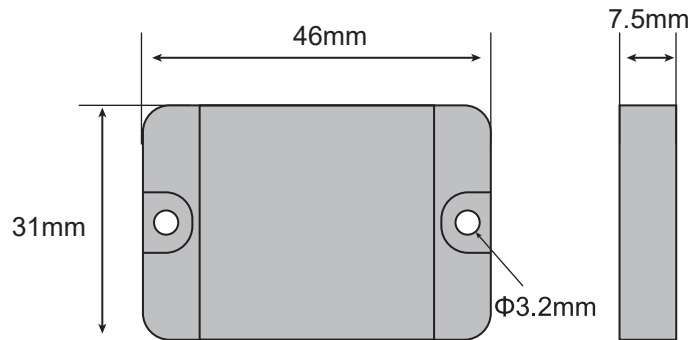
Mounting options on metal surface: 3M glue/ Screw/Rivets/Double sides adhesive that adaptive to mounting conditions.

### Physical Specification:

|                      |                                                      |
|----------------------|------------------------------------------------------|
| RFID Protocol:       | EPC Class1 Gen2, ISO18000-6C                         |
| Frequency:           | US 902-928MHz, EU 865-868MHz, or Customs             |
| IC type:             | Alien Higgs-3                                        |
| Memory:              | EPC 96bits (Up to 480bits) , USER 512bits, TID64bits |
| Write Cycles:        | 100,000times                                         |
| Functionality:       | Read/wirte                                           |
| Data Retention:      | 10 Years                                             |
| Metarial:            | Engineering plastics                                 |
| Weight:              | 22g/pc                                               |
| RoHs:                | EU Directive 2011/65/EU                              |
| Work Temperature:    | -25°C to +95°C                                       |
| Storage Temperature: | -45°C to +230°C                                      |
| Peak value:          | +230°C @ one hour                                    |

## Dimensions:

|             |                 |
|-------------|-----------------|
| Applicable: | Metal Surfaces  |
| Size:       | 46mm*31mm*7.5mm |
| Hole size:  | 3.2mm           |

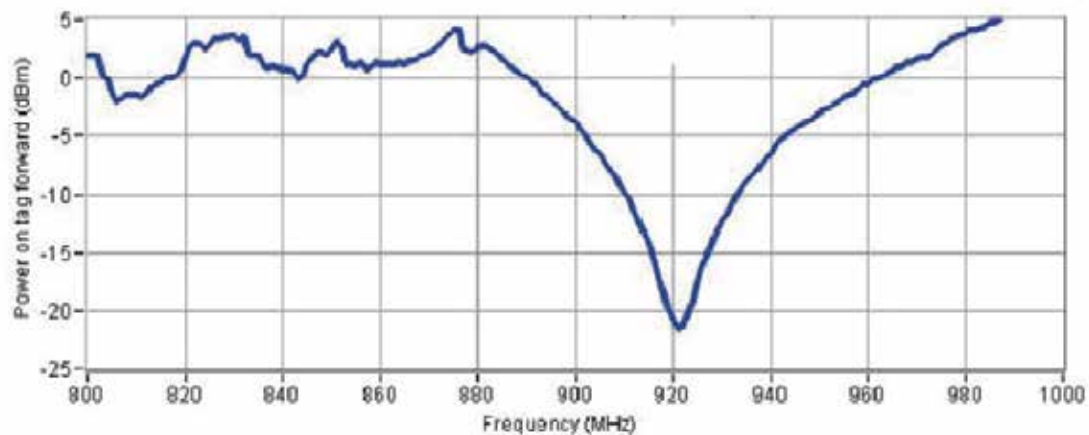


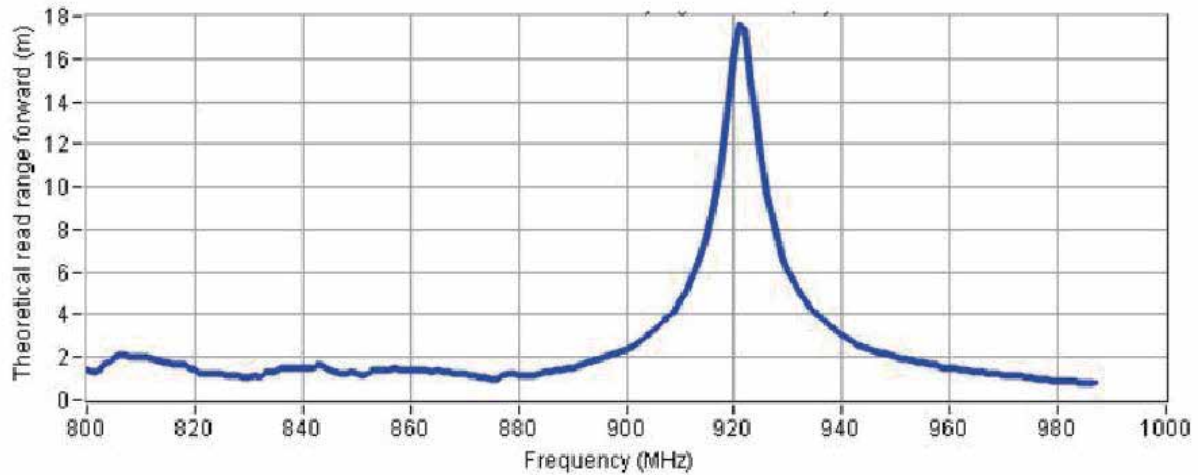
## Reliability Test:

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Temperature Test:         | +230°C Temperature in 15 days                                |
| Temperature Cycling Test: | -40°C to +150°C 7 times, 48 hours High/Low temperature cycle |
| IP Classification:        | IP68                                                         |

## RF Performance:

|                  |                                         |
|------------------|-----------------------------------------|
| Fix Reader:      | up to 10M, (4W EIRP, Alien 9900 Reader) |
| Handheld Reader: | up to 6M, (Alien 9001 Reader)           |
| Polarization:    | Linear                                  |





### Installation and Polarization:

