Omni-ID®
Intelligent Tracking & Monitoring Devices

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## Fit 220

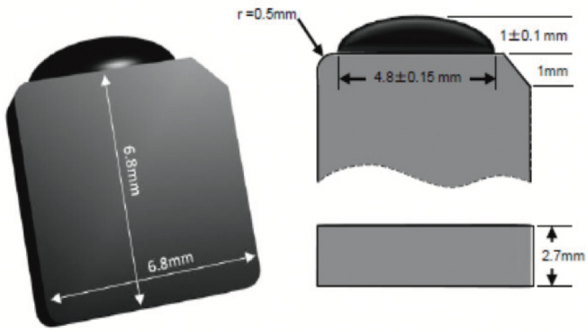
Omni-ID's Fit 220 High Temperature tag is the smallest regional RFID tag with the capability to survive cycling applications to +235oC. The performance of the Fit 220 tag is not sacrificed by its small size and it is an ideal solution for tracking very small metal assets where space is limited.

## Applications

With its regional performance, high temperature capability and very small form factor, the Omni-ID Fit 220 tags are ideally suited to tracking small metal assets in applications such as:

- Small Hand Tools
- Healthcare instruments
- IT assets

## Dimensions




Measurements shown in mm

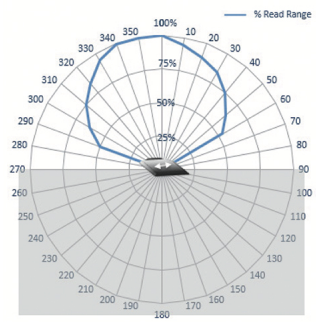
## Physical Specifications

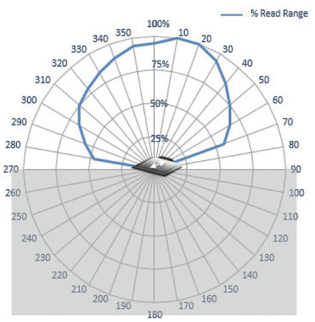
| | |
|---|---|
| **Material** | Painted Black |
| **Size** | 6.8 x 6.8 x 2.7 without IC bump<br>7.8 x 6.8 x 2.7 including IC bump<br>+/- 0.5 mm<br>0.27 x 0.27 x 0.11 +/- 0.02 in |
| **Weight (g)** | 0.6 |
| **Attachment** | Film Adhesive (included) for placement only, in applications exceeding +85c |

Product dimensions shown above are the maximum. Batch to batch variation could be within 5%. Unspliced sections will be within 0.2mm tolerance.

## Radiation Patterns

On Metal




Visit **omni-id.com** to learn more about the complete line of **Omni-ID RFID** products

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## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | –20°C to +85°C |
| **Max Temperature Exposure** | -20°C to +235°C |
| **IP Rating** | IP68 |
| **Shock & Vibration Tolerance** | MIL-STD-810 G |

### Certifications

CE, RoHS, Ex, ATEX/IECEx certified (option), US&Canada (C1D1/D2) certified (option)

## Operational Specifications

| | |
|---|---|
| **Radio Protocol** | EPC Class 1 Gen2v2 |
| **Frequency Range** | 866 – 868 MHz (EU)<br>902 – 928 MHz (US) |
| **Read Range – Fixed Reader** | Up to 2.2m (7.2 feet) |
| **Read Range – Handheld Reader** | Up to 1.4m (4.6 feet) |
| **On Metal or Balanced** | Optimized for metal |
| **Material Compatibility** | Metal |
| **IC Type (Chip)** | Alien Higgs 3 |
| **Memory** | EPC - 96 bits<br>User - 512 bits<br>Unique TID - 64 bits |

Quoted performance achieved using standard testing methodology on Aluminium test plates. Read range is dependent on multiple factors such as; RFID reader transmit power and receiver sensitivity, asset material and environment. Please see the Omni-ID On Metal Labels User Guide for more detail.
2 EPC and User memory are reprogrammable. UTID is locked at point of manufacture by IC manufacturer.

## Ordering Information

| | |
|---|---|
| **Warranty** | 1 years |
| **Product Options** | :303 (Customization)<br>:304 (ATEX/IECEx certified)<br>:307 (US&Canada (C1D1/D2) certified)<br>:701 (Standard Service Bureau) Label is not rated for high temperatures |
| **Part Number / Order Codes / Order Numbers** | 155 (EU, US) |