



## RFO RTHT0913 High Temperature UHF Tag

**+300°C**

### Product Description

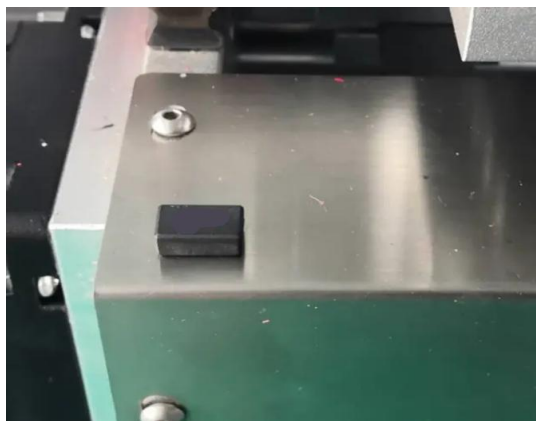
#### Main Features

#### Mini High-Temperature RFID Ceramic Tag

The RFO-RTHT0913 is a mini, rugged IP68 RFID tag designed specifically for metal surfaces. Despite its small size, it can withstand temperatures up to 300°C. Its heat-resistant shell not only reduces heat exposure but also protects the ceramic substrate from acid and alkali corrosion. Fully encapsulated via injection molding, the tag is completely airtight, ensuring long-term durability in harsh environments. These high-temperature tags can all withstand acid and alkali splashes because the outer shell is corrosion-resistant. This Tag is produced by ultrasonic welding, and if they are immersed in acid or alkali solution for a long time, the corrosive liquid will gradually corrode the internal antenna and chip.

This versatile tag is ideal for industrial applications such as coating, heat treatment, molding, painting, and other RFID-based asset management tasks.

#### Product pictures



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|--|---|--|
| <b>Article no:</b>   | Standard  | RFO RTHT0913   |
| <b>Typical Applications</b>  | 9   |  |
| <ul style="list-style-type: none"> <li>•Manufacturing</li> <li>•Security</li> <li>•Waste management</li> <li>•Logistics</li> </ul> | <ul style="list-style-type: none"> <li>•Health Care</li> <li>•Asset management</li> <li>•Food</li> <li>•Transportation</li> </ul> | <ul style="list-style-type: none"> <li>•Service Maintenance &amp; Diagnostics</li> <li>•Automotive</li> <li>•Retail &amp; POS</li> <li>•Home Automation</li> </ul> |

**Contact:**

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| Technical Specifications  |  | RFO RTHT0913 |
|---|--|--------------|
| Operation mode  | Passive (Battery less)                                 |              |
| Protocol  | EPC Class 1 Gen2                                       |              |
| ISO Standard  | ISO 18000-6C   |              |
| Operating Frequency   | 865-868MHz (EU)<br>902-928MHz (FCC)                    |              |
| Memory  | EPC: 128 Bit<br>User: 432 Bit<br>TID: 96 Bit           |              |
| IC Type   | Impinj R6-P  |              |
| Polarization  | Linear   |              |
| Read Range  | Up to 3 m (on metal) (depends on environment etc.)     |              |
| Environment Compatibility   | Optimized on metal                                     |              |
| Mechanical Specifications   |  |              |
| Material  | Ceramic  |              |
| Surface Materials   | PA6+GF   |              |
| Dimensions  | 9 x 13.5 x 6 mm  |              |
| Weight  | 1.8 g  |              |
| Attachment  | High performance epoxy resin / Industry grade adhesive |              |
| Color   | Black by default                                       |              |
| Environmental Specifications  |  |              |
| Ambient Temperature   | -30°C to +300°C  |              |
| Operating Temperature   | -30°C to +85°C   |              |
| Shock and Vibration   | MIL STD 810-F  |              |
| Certifications  | CE & RoHS approved / ATEX/IECEx certified              |              |
| IP Classification   | IP68   |              |
| Warranty  | 1 Year   |              |
| Customization Options   |  |              |
| Encoding  |  |              |
| Pre-encoding based on customers' specification, including EPC, User memory and other requests |  |              |
| Appearance  |  |              |
| Customized appearance design, including logo, barcode, text on the PET label etc              |  |              |