



RFO RTHT1338 High Temperature UHF Tag

+300°C

DATA SHEET

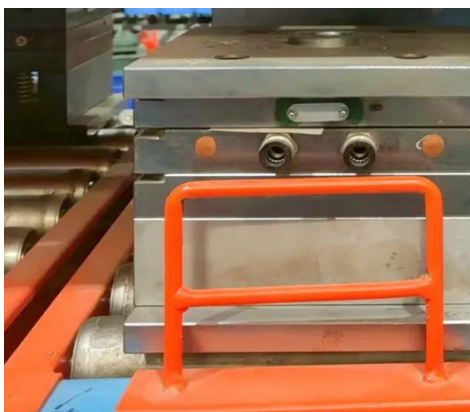
Product Description

Main Features

This compact, rugged IP68-rated High-Temperature UHF RFID On-Metal Tag delivers long read ranges on metal surfaces—up to 3 meters with a handheld reader. Its high-temperature-resistant engineering plastic shell and ceramic substrate, combined with a unique structural design, ensure stable performance in environments up to 300°C for extended periods. 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.

In addition to high-temperature resistance, the tag is acid and alkali resistant, making it highly durable in corrosive industrial environments. Ideal for coating, heat treatment, molding, process painting, medical device management, and other demanding applications, this tag is a reliable solution for Industry 4.0 asset tracking and automation.

Product pictures



Article no:	Standard	RFO RTHT1338
Typical Applications		
<ul style="list-style-type: none"> •Manufacturing •Security •Waste management •Logistics 	<ul style="list-style-type: none"> •Health Care •Asset management •Food •Transportation 	<ul style="list-style-type: none"> •Service Maintenance & Diagnostics •Automotive •Retail & POS •Home Automation

Contact:

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Technical Specifications RFO RTHT1338

Operation mode	Passive (Battery less)
Protocol	EPC Class 1 Gen2
ISO Standard	ISO 18000-6C
Operating Frequency	865-868MHz (EU) 902-928MHz (FCC)
Memory	EPC: 128 Bit User: 32 Bit TID: 96 Bit
IC Type	Impinj R6-P
Polarization	Linear
Read Range	Up to 6.5 m (on metal) (depends on environment etc.)
Environment Compatibility	Optimized on metal

Mechanical Specifications

Material	Ceramic
Surface Materials	PA6+GF
Dimensions	13 x 38 x 7.7 mm
Weight	7.4 g
Attachment	High performance epoxy resin / Rivet hole (Φ3.4 mm)
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

Performance test chart in Voyantic

