

## RFO RTHT 0505 High Temperature MOM UHF RFID Tag

**+250°C**

DATA SHEET

### Product Description

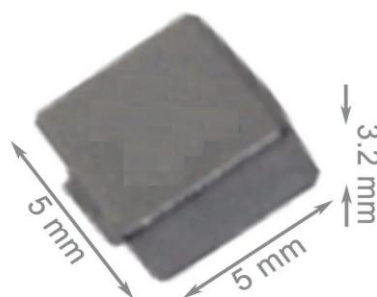
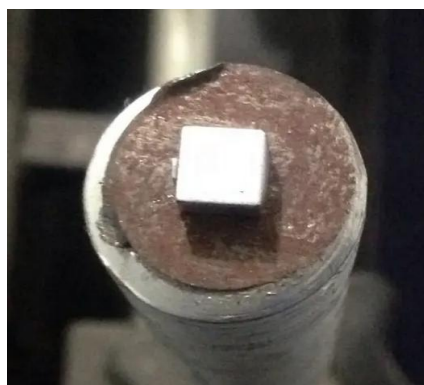
#### Main Features

RFO-RTHT0505 is one of the smallest UHF RFID tags designed for embedded and anti-metal applications. Its compact size enables discreet integration into products, tools, and assets, while advanced antenna design ensures reliable performance on metal surfaces. RFO-RTHT0505 is ideal for industrial tool tracking, inventory management, and anti-counterfeiting applications in space-constrained environments.

#### Key Features

- > Ultra-small form factor for embedded applications
- > Optimized for on-metal performance
- > Reliable read range and communication on metal surfaces
- > Advanced antenna design with shielding and insulation
- > Passive UHF RFID technology
- > Suitable for constrained or discreet installations

#### Product pictures



<b>Article no:</b>	Standard	RFO RTHT0505
<b>Typical Applications</b>		
<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 RTHT0505
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 3.5 m (on metal) (depends on environment etc.)	
Environment Compatibility	Optimized on metal	
Mechanical Specifications		
Material	Ceramic	
Surface Materials	Durable Paint	
Dimensions	5 x 5 x 3 mm	
Weight	0.4 g	
Attachment	High performance epoxy resin / Industry grade adhesive	
Color	Black by default	
Environmental Specifications		
Ambient Temperature	-30°C to +250°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		