

# UHF RFID MICRO TAG

## - Product Specification -



- **Model:** RS-RMT05
- **Material:** PCB
- **Frequency:** UHF 860-940MHz
- **Size:** 5.8×2×1.7mm
- **Chip:** Impinj Monza R6P
- **Protocol:** EPC Class1 Gen2; ISO18000-6C
- **Reading Range:** 10-80cm (based on reader/writer and installation method)
- **Read/Write Times:** ≥100,000 times
- **Operating Temperature:** -40°C~85°C
- **Optional:** With/without anti-metal function

## Product Description

The Micro UHF Anti-Metal Tag is an industrial-grade, ultra-compact UHF specialty tag featuring exceptional characteristics such as anti-metal capabilities, high-temperature resistance, corrosion resistance, and a high ingress protection rating (IP67). Whether affixed to metal surfaces or embedded, it enables highly efficient individual reading, batch reading, and stacked reading.

## Technical Parameters

Physical Characteristics	
Material	PCB
Size	5.8×2.0×1.7mm
Color	Black
Operating Temperature	-40°C~85°C
Temperature Resistance	-196°C (>2000 h), 125°C (>1000 h), 260°C (5 min)
Installation Methods	1. Direct surface attachment to metal objects (adhesive bonding); 2. Embedding into the surface of metal objects (slotting + adhesive bonding).
Electrical Characteristics	
Frequency	860-940MHz
Chip Type	Monza R6P
Memory	EPC 128 bits (96bits), User 32 bits (64bits), TID 48 bits
Read/Write Times	≥100,000 times
Data Storage	10 years
Reading Distance	10–80 cm (based on embedding in a metal surface; depends on the tool and the depth of the groove)

## ★ Key Features

- Ultra-compact and metal-resistant;
- Waterproof IP67;
- High & low temperature resistant, corrosion resistant;
- Effective group reading and overlapping reading.

## 📦 Application

Metal tool management, medical surgical tool management, etc.

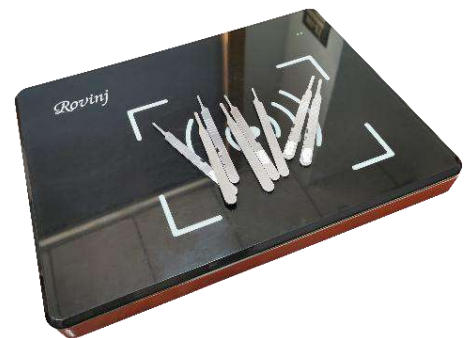
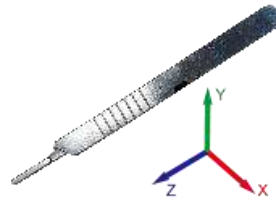


## 📦 Performance

Test Device: Rohde & Schwarz Orca50 Air Handheld Reader

Output Power: 33 dBm

Frequency: 920–925 MHz



Installation Position	100% Embedded	50% Embedded	Surface-Mounted
X-axis Read Range	53 cm	52 cm	52 cm
Y-axis Read Range	85 cm	91 cm	100 cm
Z-axis Read Range	17 cm	17 cm	19 cm

## CONTACT

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