

# UHF RFID MICRO TAG

## - Product Specifications -



- **Model:** RS-RMT04
- **Material:** PCB
- **Frequency:** UHF 860-940MHz
- **Size:** 2.2×2.2×0.9mm, 2.6×2.6×0.9mm
- **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

Magic Series of ultra-compact UHF tags consists of industrial-grade, specialized UHF tags. They feature high-temperature resistance, corrosion resistance, and an IP67 waterproof rating, while also being metal-tolerant and liquid-friendly. These tags can be paired with external RF booster antennas or directly affixed to the surfaces of metal objects, liquid containers, or assets.

## Technical Parameters

Physical Characteristics	
Material	PCB
Size	2.2×2.2×0.9mm, 2.6×2.6×0.9mm
Color	Black
Operating Temperature	-40°C~85°C
Storage Temperature	-40~120°C (-40~248°F), 50% RH
Temperature Resistance	Cold resistance:-196°C (>2000 h); Heat resistance:≤260°C (5 min)
Protection Rating	IP67
Adhesive Surface	Metal, liquid containers, various assets
Electrical Characteristics	
Frequency	860-940MHz
Chip Type	Impinj Monza R6P / R6
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 ((depending on the tool and the depth of the notch; based on an example embedded in a metal surface with no metal obstructions))

## ★ Key Features

- Ultra-compact module;
- Waterproof IP67;
- Metal-resistant and liquid-friendly;
- High & low temperature resistant, corrosion resistant;
- Embedded antenna design for direct identification with RFID readers/handheld devices;
- Supports expansion to enhance the antenna, enabling long-range RFID tag reading & data transmission.

## 📦 Application

Metal tool management, medical surgical tool management, etc.



## 📦 Performance



Size: 2.6 × 2.6 × 0.8 mm  
R6P chip + 143 mm steel wire coupling line  
865–868 MHz: 10.5 m / -16.5 dBm  
902–928 MHz: 13 m / -18.7 dBm

Size: 4.0×4.0×1.0mm  
R6 chip + 135mm steel wire coupling line  
865~868MHz: 6.8m/-12.7dBm  
902~928MHz: 8.5m/-15.2dBm

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