

PCB On-Metal UHF RFID Tag Product Datasheet

Model: P1204-1



Colour:     

Black Red Blue Green White

Our **PCB On-Metal UHF RFID Tags** are designed for superior performance on metal surfaces, offering high read stability and long-range readability in demanding environments. Built with high-quality PCB materials, these tags are corrosion-resistant, shockproof, and vibration-resistant, ensuring durability and reliability.

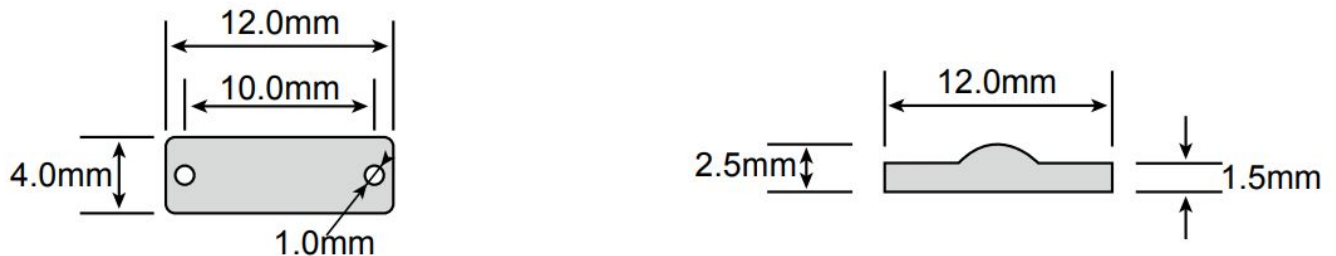
Featuring waterproof and dustproof (IP67) protection, they are ideal for both indoor and outdoor use. With excellent anti-interference capabilities, they deliver consistent performance even in high-interference settings.

Perfect for asset tracking, logistics, and industrial applications, our tags combine robust design and exceptional performance to meet your toughest tracking needs.

1. Product Parameters

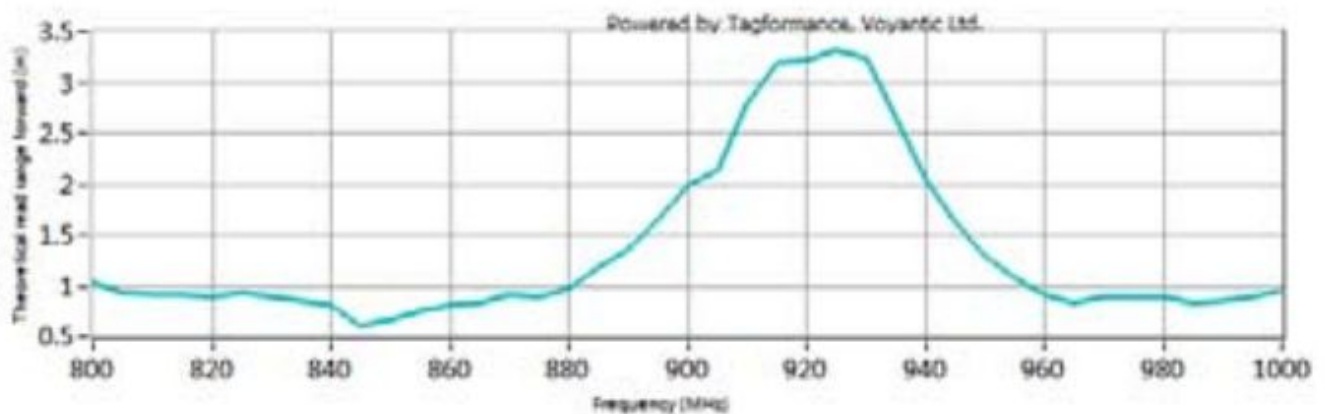
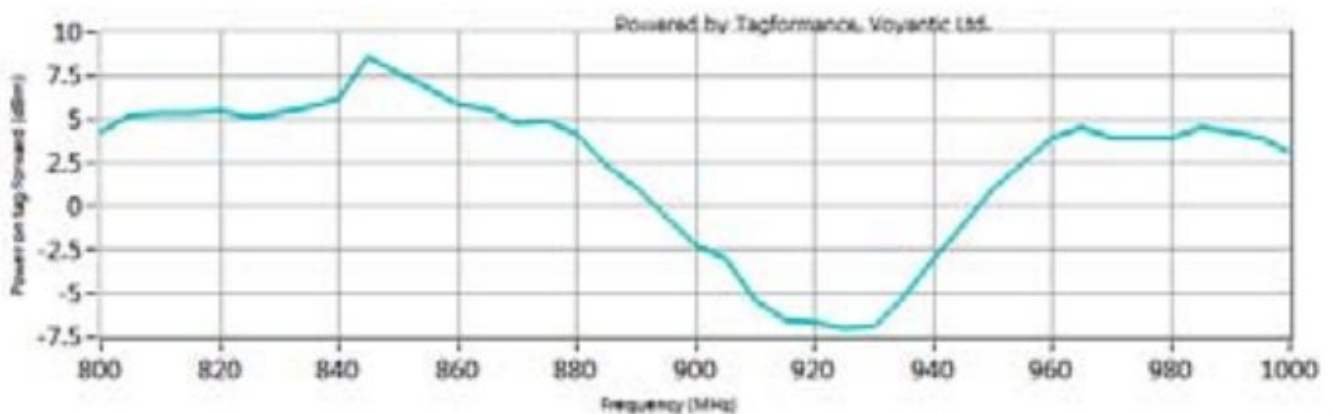
Size	12.0 x 4.0mm
Thickness	1.5mm without ic bump, 2.5mm with ic bump
Material	FR4(PCB)
Colour	Black (White,red,green,blue..)
Mounting Methods	Adhesive
Weight	0.2g
Air Interface Protocol - Standard	EPC global Gen2, ISO/IEC 18000-6C
Operating Frequency	(EU)865~868MHz / (US)902~928MHz
IC Type	NXP UCODE 8
Memory	EPC 128 bits, USER 0 bits, TID 96 bits
Write Cycles	100,000 Times
Functionality	Read/write
Data Retention	50 Year
Applicable Surface	Metal Surfaces
Read Range(fixed reader)	Up to 1.5m - (US) 902-928 MHz, on metal; Up to 1.5m - (EU) 865-869 MHz, on metal
Read Range(handheld reader)	Up to 0.6m - (US) 902-928 MHz, on metal; Up to 0.6m - (EU) 865-869 MHz, on metal
Warranty	1 year
IP Rating:	IP68
Storage Temperature	-20 ~ +150℃
Operation Temperature	-20 ~ +100℃
Certifications	Reach Approved, RoHS Approved, CE Approved

2. Product Dimensions



3. Reading Range

US Standard:



4. Application

- Asset Tracking in Industrial Environments
- IT and Data Center Management
- Automotive and Aerospace Industries
- Medical Equipment Management
- Retail and Inventory Management
- Logistics and Supply Chain