PCB On-Metal UHF RFID Tag Product Datasheet

Model: P4010-2





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.

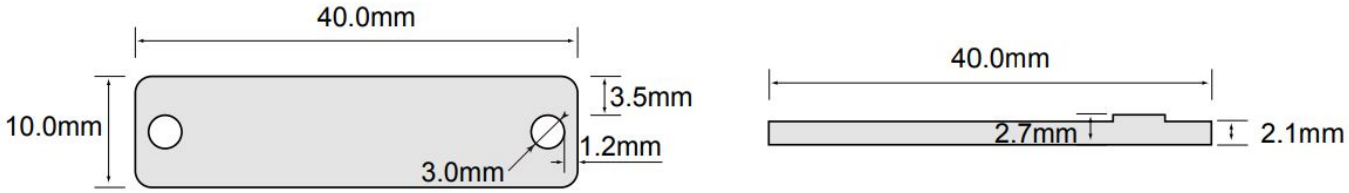
Guangzhou Office Address: Room A701, A702, A715, RunXiang Building, #1521 North of Guangzhou Avenue, Guangzhou, GuangDong Province, China Website: www.scivas.com TEL: +86-20-87097510

1. Product Parameters

Size	40x10mm, (Hole: D3mmx2)
Thickness	2.1mm without IC bump, 2.7mm with IC bump
Material	FR4(PCB)
Colour	Black (White,red,green,blue..)
Mounting Methods	Adhesive, Screw
Weight	2.0g
Air Interface Protocol - Standard	EPC global Gen2，ISO/IEC 18000-6C
Operating Frequency	(EU)865~868MHz / (US)902～928MHz
IC Type	Alien Higgs-3
Memory	EPC 96bits (Up to 480bits) , USER 512bits, TID64bits
Write Cycles	100,000 Times
Functionality	Read/write
Data Retention	50 Year
Applicable Surface	Metal Surfaces
Read Range(fixed reader)	Up to 4.5m - (US) 902-928 MHz, on metal; Up to 4.2m - (EU) 865-869 MHz, on metal
Read Range(handheld reader)	Up to 3.0m - (US) 902-928 MHz, on metal; Up to 2.8m - (EU) 865-869 MHz, on metal
Warranty	1 year
IP Rating:	IP68
Storage Temperature	-40°C to +150°C
Operation Temperature	-40°C to +100°C
Certifications	Reach Approved, RoHS Approved, CE Approved

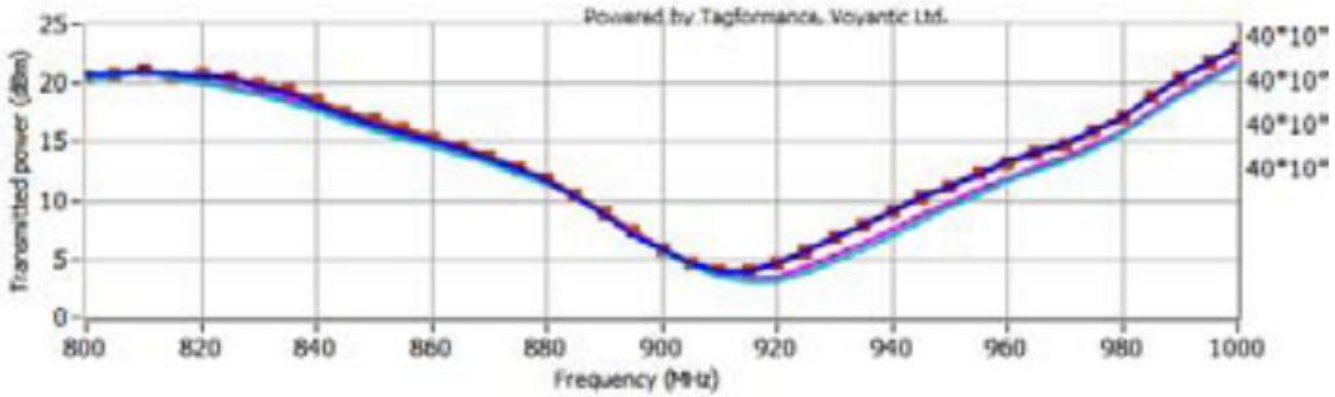
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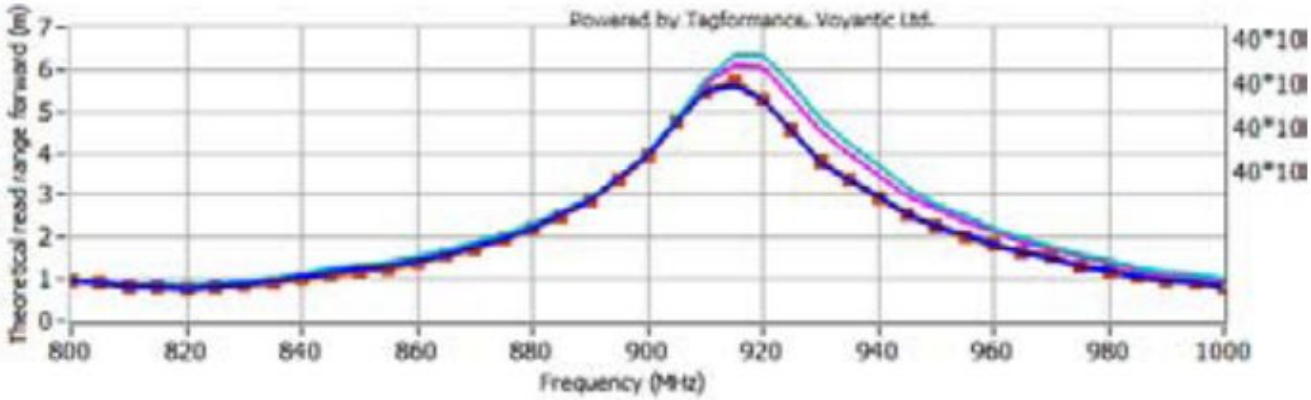
2. Product Dimensions



3. Reading Range

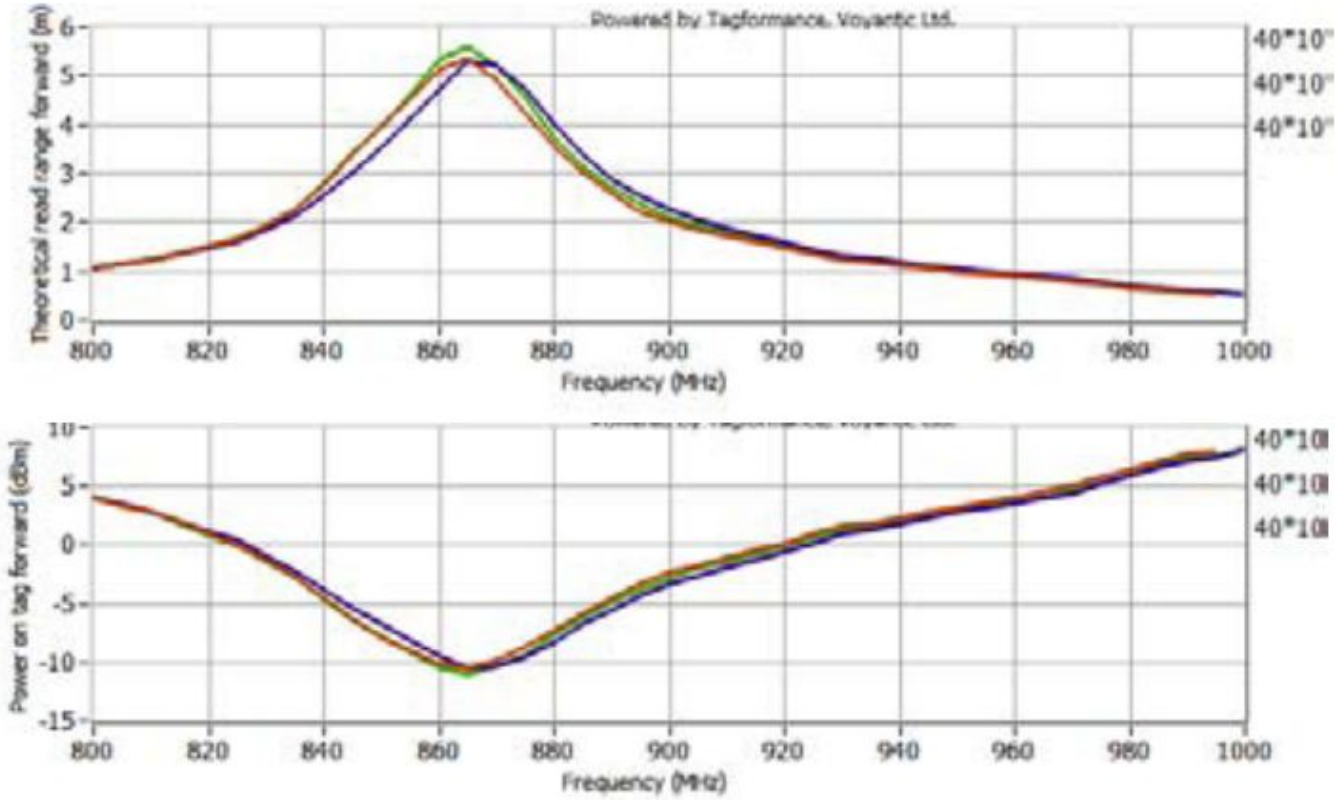
US Standard:





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European 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

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