

PCB On-Metal UHF RFID Tag Product Datasheet

Model: PD05-1



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.

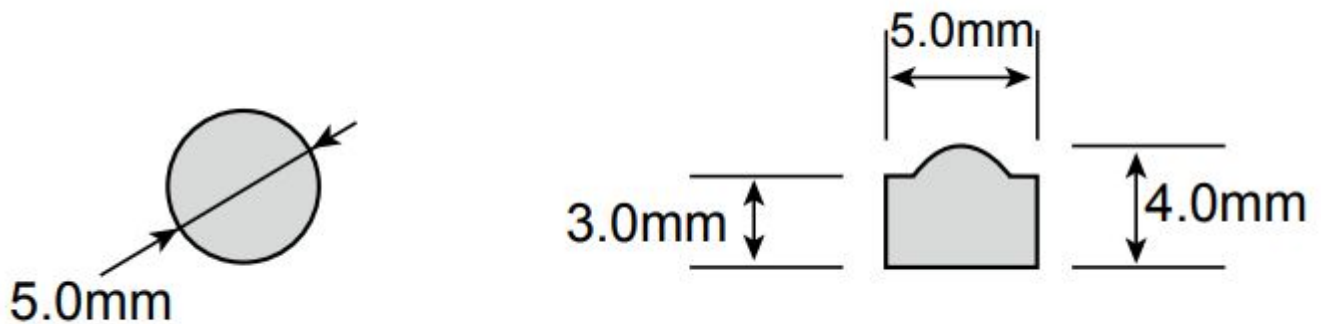
Featuring waterproof and dustproof (IP67) protection, they are ideal for both indoor and outdoor use. With excellent anti-interference capabilities, they deliver consistent performance even in high-interference settings.

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

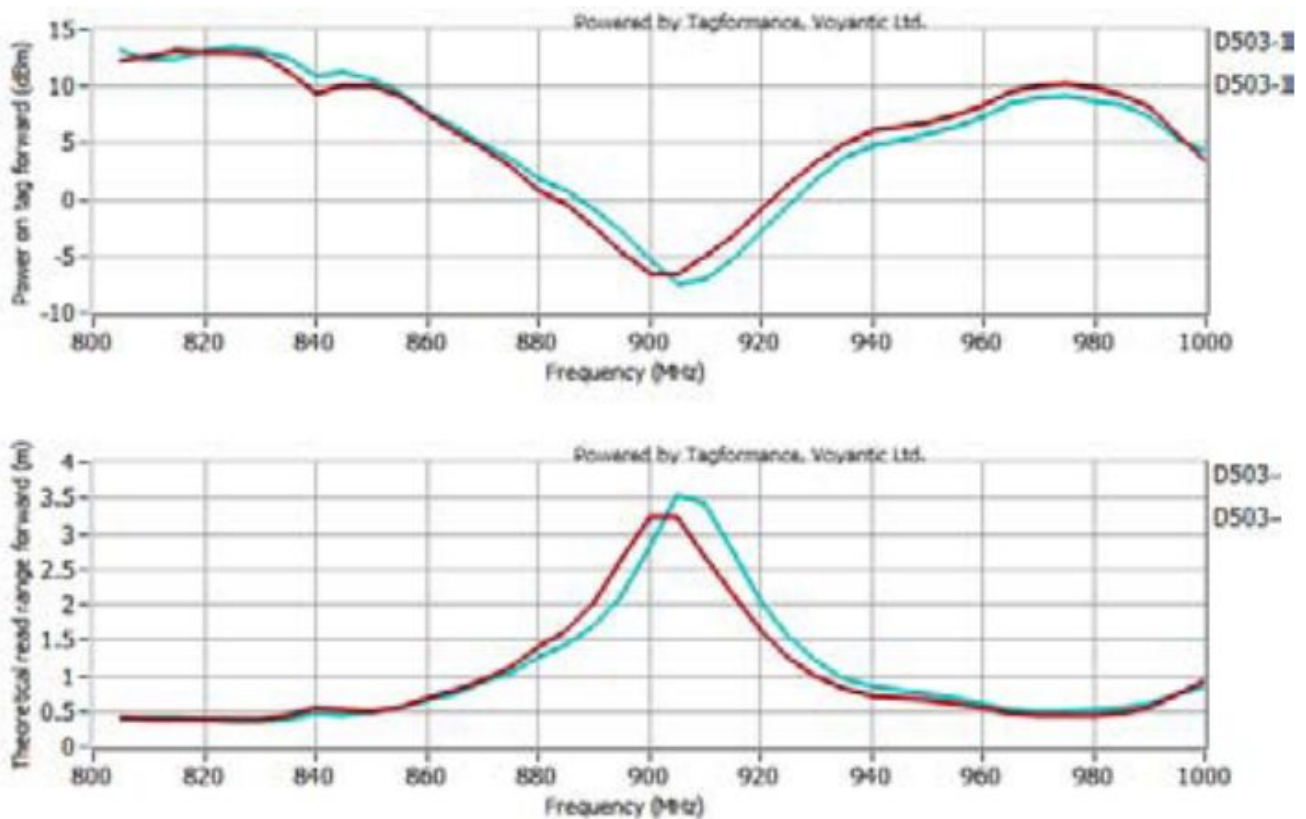
Size	dia5mm
Thickness	4.0mm with IC bump
Material	FR4(PCB)
Colour	Black (White,red,green,blue..)
Mounting Methods	Adhesive
Weight	0.5g
Air Interface Protocol - Standard	EPC global Gen2, ISO/IEC 18000-6C
Operating Frequency	(EU)865~868MHz / (US)902~928MHz
IC Type	Alien Higgs-3
Memory	EPC 96bits (Up to 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 1.0m - (US) 902-928 MHz, on metal; Up to 0.8m - (EU) 865-869 MHz, on metal
Read Range(handheld reader)	Up to 0.6m - (US) 902-928 MHz, on metal; Up to 0.4m - (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

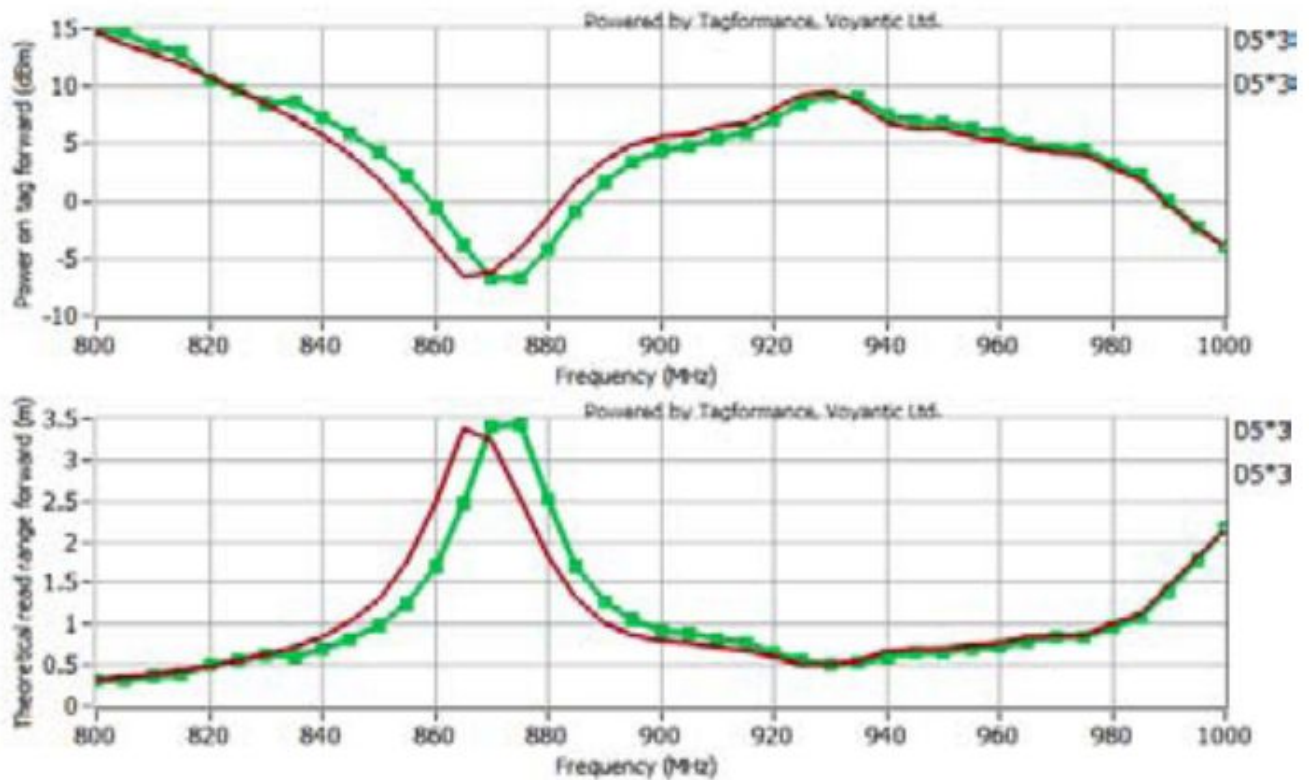


3. Reading Range

US Standard:



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