



Alien® Higgs® 3 UHF RFID PCB On-Metal Tag

SKU: RS-H3-PCB-D5T4

Chip Type: Alien® Higgs® 3

Frequency Band: (US)902-928 MHz
(EU)865-868 MHz

EPC Memory: 96/480 bits

User Memory: 512 bits

Max. Read Range: Up to 1 m on metal

IP Rating: IP68

Protocol: ISO/IEC 18000-63
EPC Class 1 Gen 2

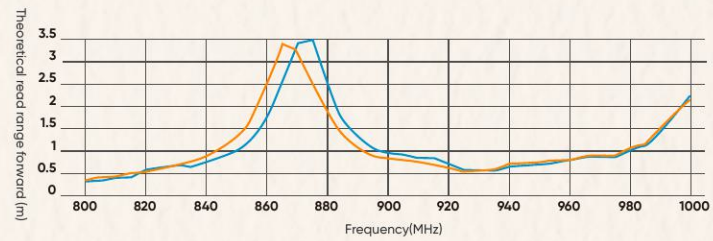
Industry: Manufacturing, Industrial Automation,
Logistics

Applications: Asset Tracking, Equipment Tracking,
Warehouse Management, Logistic
Management

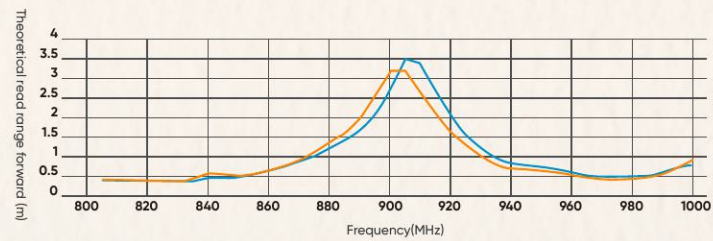
Constructed from robust, tear-resistant, lightweight, moisture-proof, and heat-resistant FR4 PCB, this Alien® Higgs® 3 UHF RFID on-metal tag is perfect for use on metal surfaces in demanding environments, providing a read range of up to 1 meter when affixed to metal. Its compact design and versatile mounting options—either embedded or adhesive—facilitate straightforward installation on a variety of metal surfaces.

With an IP68 rating for dust and water resistance, it is well-suited for outdoor applications. This UHF RFID on-metal tag is specifically engineered for asset tracking, warehouse management, logistics management, and equipment tracking in tough industrial settings.

PCBD5E4:

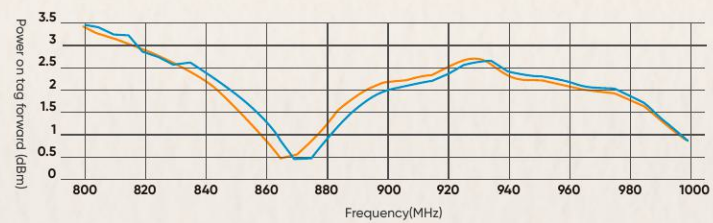


PCBD5U1:

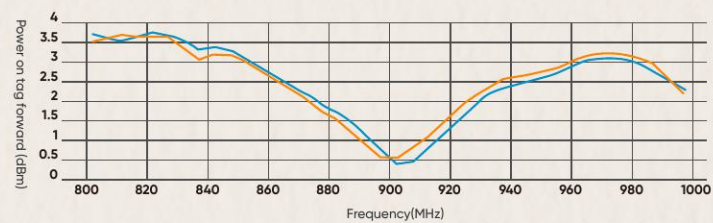


Tag power under different frequency

PCBD5E4:



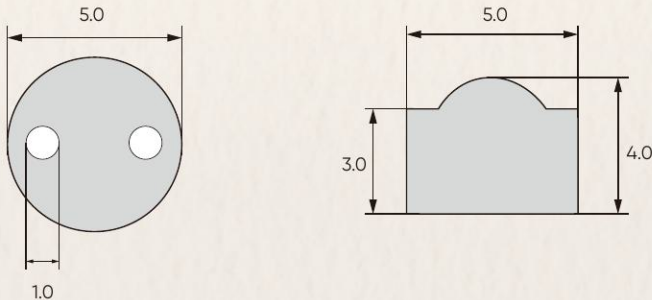
PCBD5U1:



Physical Information	Material	FR4(PCB)
	Size	Diameter: 5 mm; Thickness: 4.0 mm with IC bump
	Tag Color	Black(red, blue, green, white)
	Tag Weight	0.5 g
	Operating Environment	-40°C~+100°C
	Storage Environment	+18°C~+28°C
	Mounting Method	Embed, adhesive
	Surface	Metal
	IP Rating	IP68

Technical Information	Operating Frequency	(US)902-928 MHz, (EU)865-868 MHz
	Protocol	ISO/IEC 18000-63, EPC Class 1 Gen 2
	Read Range (Fix Reader)	1 m-(US)902-928 MHz, on metal 0.9 m-(EU)865-868 MHz, on metal
	Read Range (Handheld Reader)	0.6 m-(US)902-928 MHz, on metal 0.55 m-(EU)865-868 MHz, on metal
	Chip Type	Alien® Higgs® 3
	EPC Memory	96/480 bits
	User Memory	512 bits
	TID Memory	64 bits
	Security Features	Dynamic authentication™ protection, permanently lock user memory, mandatory and optional command adaptation

Label Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
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