

UHF High-temp Label

41 x 10 mm U9xm

The High-Temperature Resistant UHF Label is engineered for environments where labels are exposed to elevated temperatures, rapid thermal changes, or industrial heating processes.

Using heat-resistant substrates, adhesives, and a reinforced antenna structure, this label maintains stable UHF RFID performance in conditions where standard labels degrade or fail.

Typical applications include manufacturing workflows, automotive components, electronics processing, metal trays, and logistics operations involving high-temperature exposure.

The product is complied with EPCglobal Class 1 Gen2, ISO 9001 quality management and ISO 14001 environmental management standards, ensuring reliable, industry-grade performance for diverse use cases.

Equipped with the NXP Ucode 9xm IC, The extended EPC/user memory of the Ucode 9xm makes it possible to store the kinds of data points that make it easier to recycle, re-sell and re-use products. It also increases visibility, by promoting efficiencies within manufacturing and supply chains, helps reduce waste, by making it easier to match production with demand, and improves efficiency by transporting only what's ordered.

Overview

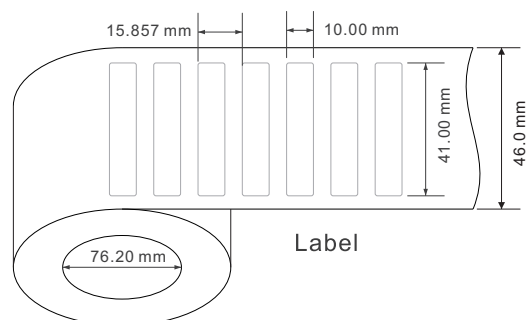
Frequency Band
 UHF 860-960 MHz

Chip Type
 NXP Ucode 9xm

Dimensions
 41 x 10 mm / 1.61 x 0.39 in

Air Interface Protocol
 ISO/IEC 18000-63 Type C

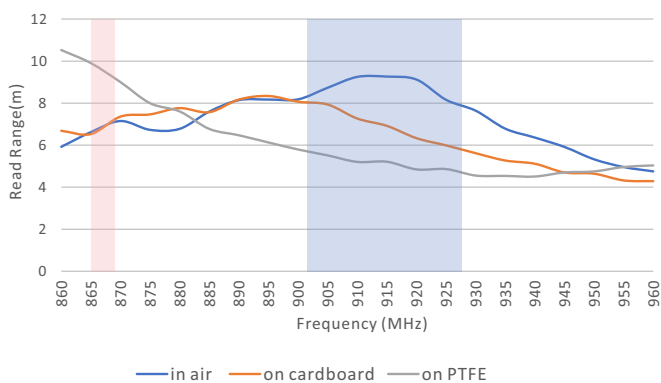
Application
 Medical consumable
 Manufacturing industry



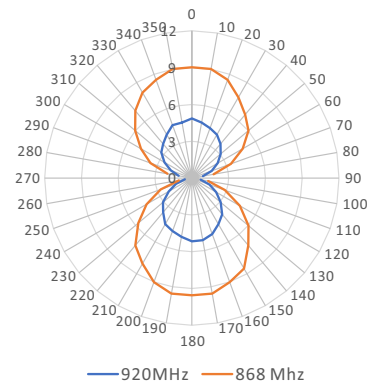
Technical Features

Model	RC5135
RFID Features	
Frequency	860-960 MHz
Application	Non metal
Chip Type	NXP Ucode 9xm
Memory	3 Customer Configurable Memory ① User - 752 bits; EPC - 128 bits; TID - 96 bits ② User - 624bits; EPC - 256 bits; TID - 96 bits ③ User - 384 bits; EPC - 496 bits; TID - 96 bits
Data Storage	> 20 years
Re-write	100,000 times
Physical Features	
Dimension	41 x 10 mm / 1.61 x 0.39 in
Material	Coate Paper
Adhesive	3M99786
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Storage Condition	150°C/1 hour, 134°C/2 hour 50±10% RH, Store away from sunlight
Other Features	
Installation	Adhesive on clean & dry surface
Customization	Printing, Encoding, Designing, etc.
Package	2,500 pcs / roll, 4 rolls / box

Read Range(2W ERP)



Radiation Pattern



PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.

RICHRFID

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DISCLAIMER

All specifications are indicative and results may vary. Each user bears full responsibility for making its own determination as to the suitability of RICHRFID products, materials, services, recommendations, or advice for its own particular use.

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