

UHF Microwave Label

43.5 x 21 mm 0051E

The Microwave UHF Label is engineered for applications requiring high durability under extreme heat, moisture, and steam pressure. Designed with a specialized antenna structure and heat-resistant materials, this label maintains stable UHF RFID performance even in environments where conventional labels fail.

Typical use cases include food processing, high-temperature logistics, sterilization workflows, and packaging that may be exposed to microwave heating.

The product is complied with EPCglobal Class 1 Gen 2 , ISO 9001 quality management and ISO 14001 environmental management standards, ensuring reliable, industry-grade performance for diverse use cases.

Equipped with the FM13UF0051E IC, The chip is in accordance with EPC Global Class1 Gen2V2 and ISO / IEC 18000-63(TypeC). With the industry-leading RF Performance, the chip is particularly well suited for inventory management applications, supply chain management, personnel or vehicle identification, library management, airline luggage tracking, intelligent manufacturing and other fields.

Overview

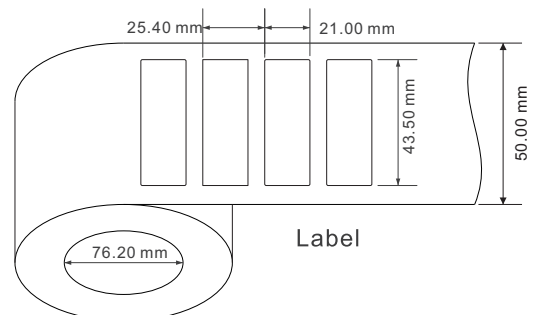
Frequency Band
 UHF 860-960 MHz

Chip Type
 FM13UF0051E

Dimensions
 43.5 x 21 mm / 1.71 x 0.83 in

Air Interface Protocol
 ISO/IEC 18000-63 Type C

Application
 Food traceability





Model	RC5137
RFID Features	
Frequency	860-960 MHz
Application	Non metal
Chip Type	FM13UF0051E
Memory	User - 32 bits; EPC - 160 bits; TID - 96 bits
Data Storage	> 10 years
Re-write	100,000 times
Read Range(2W ERP)	FCC: > 8.0 m(26.3 ft) ETSI: > 7.0 m(23.0 ft)
Physical Features	
Dimension	43.5 x 21 mm / 1.71 x 0.83 in
Material	PI
Adhesive	Hot Melt
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Storage Condition	20±5°C, 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

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



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