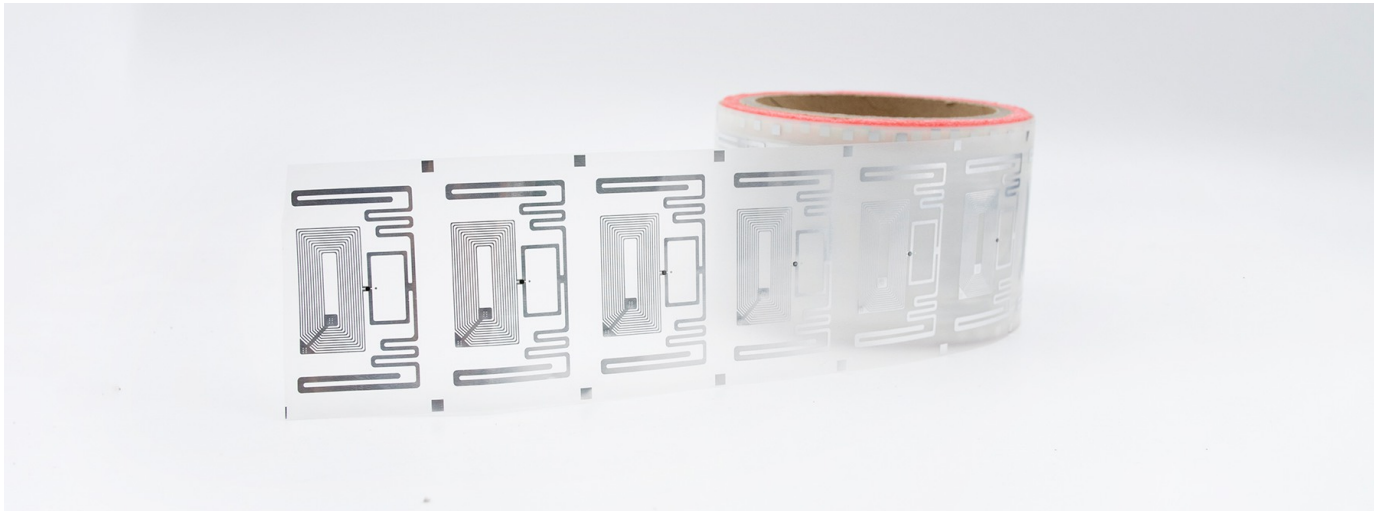




Mesh DF Q6S 50 x 30 mm

The Mesh DF Q6S from RICHRFID is a versatile, high-performance dry inlay designed for a wide range of applications. It delivers reliable reading performance across apparel and fashion, beauty and personal care, and warehouse logistics.

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

Equipped with the Qstar-6S IC, it supports long-range UHF identification and convenient HF/NFC mobile interaction. The Qstar-6S is compatible with ISO/IEC 18000-63, EPCglobal Gen2 V2.0, ISO/IEC 14443 Type A, and NFC Forum Type 2. With a 2 Kbits user memory area shared between UHF and HF, the IC enables flexible data storage and dual-frequency interaction for retail, logistics, and anti-counterfeiting applications.

With built-in cryptographic security features, the converted label is suitable for high-value products, authenticity verification, anti-cloning, and applications requiring enhanced privacy protection.

Designed as a 50 x 30 mm dry inlay for conversion into a 54 x 34 mm RFID label, Mesh DF Q6S delivers stable RFID performance and is especially well suited for retail application.

Overview

Frequency Band

UHF 860-960 MHz
HF 13.56 MHz

Chip Type

Qstar-6S

Dimensions

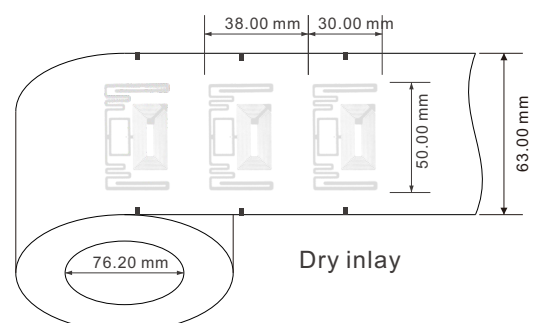
50 x 30 mm / 1.97 x 1.18 in

Air Interface Protocol

ISO/IEC 18000-63 Type C
ISO/IEC 14443 Type A
NFC FORUM Type 2

Application

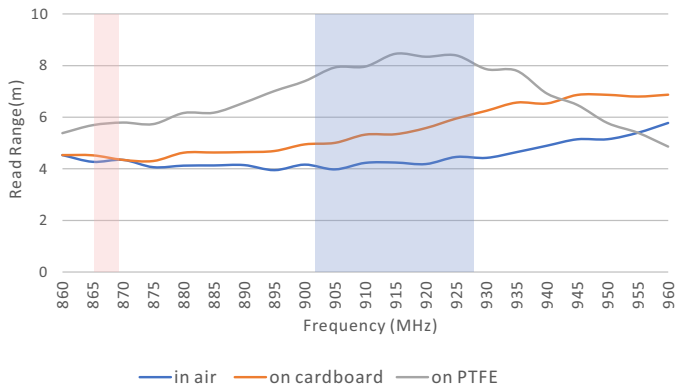
Clothing
Electronics
Package
Carton



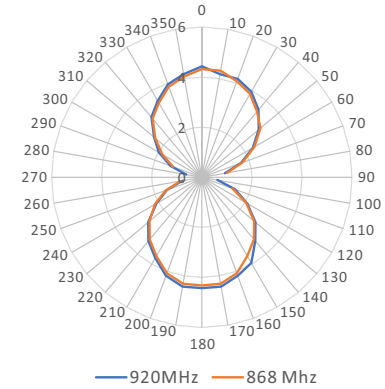
Technical Features

Chip Type	Qstar-6S	
Memory	160 bits or 256 bits of EPC for UHF 96 bits or 128 bits of TID for UHF Up to 2K bits of User for UHF and HF	
Model	—	RC5133
Delivery Format	Dry Inlay	Label
Die-Cut Dimension	—	54 x 34 mm / 2.13 x 1.34 in
Inlay Substrate	50 um PET	50 um PET
Face Material	—	Coated Paper
Adhesive	—	Hot Melt
Standard Pitch	38 mm / 1.5 in	38 mm / 1.5 in
Web Width	63 mm / 2.48 in	67 mm / 2.60 in
Core inner Diameter	76.2 mm / 3.0 in	76.2 mm / 3.0 in
Operating Temperature	-40°C to 85°C / -40°F to 185°F	
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight	
Installation	—	Adhesive on clean & dry surface
Customization	Encoding, Designing, etc.	Printing, Encoding, Designing, etc.
Package	10,000 pcs / roll, 4 rolls / box	2,500 pcs / roll, 4 rolls / box
Application	Non-metal	

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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