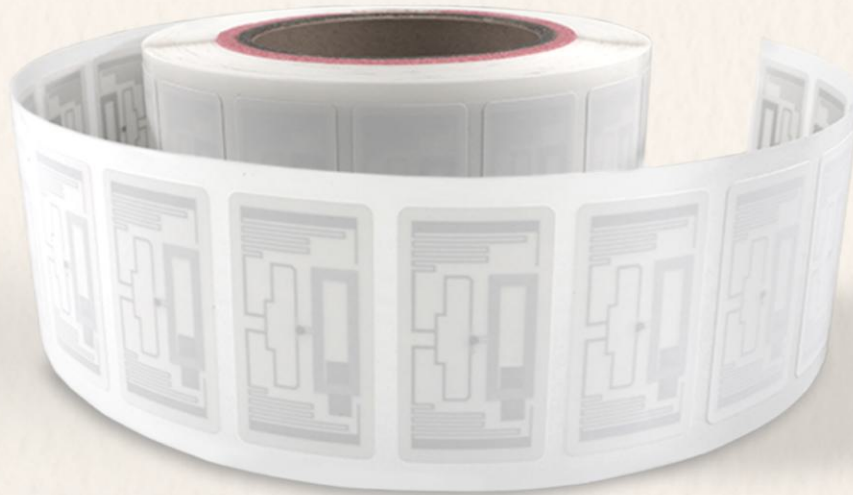
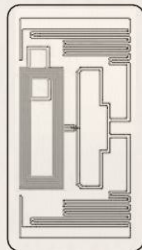




EM4425 Dual-Band HF&UHF RFID Label



SKU:	RS-EM4425-CP-4525
Chip Type:	EM4425 (em echo-V)
Frequency Band:	HF 13.56 MHz UHF 860-960 MHz
EEPROM:	2048-bit memory used for HF USER memory, UHF USER memory, EPC/Ull encoding (up to 480 bits), Optional digital signature storage (256, 384, or 512 bits)
Protocol:	HF ISO/IEC 15693, 18000-3 Mode 1, NFC Forum Type 5 Tag UHF ISO/IEC 18000-63, EPCTM Gen2v2, ISO/IEC 29167-10
Industry:	Industrial Applications, Logistics, Retail, Automotive, Aerospace
Applications:	Asset Tracking, Inventory, Warehouse, Supply Chain Management, Customer Engagement, Loyalty Programs, Product Authentication



The EM4425 Dual-Band HF & UHF RFID Label integrates all functions on a single chip, combining NFC and HF technology for close-range communication with RAIN UHF for long-range applications. It uses shared memory and a common IC serial number across all protocols, supporting ISO/IEC 15693 (HF), NFC, and EPC Gen 2 (UHF) standards.

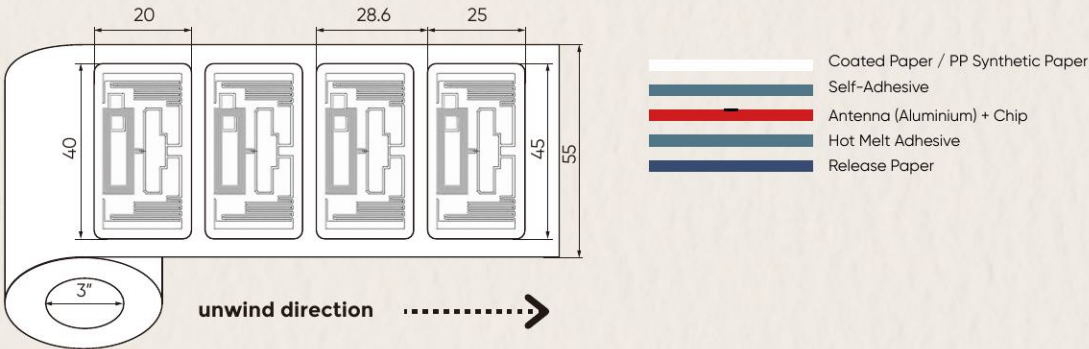
Ideal for retail, product authentication, consumer engagement, industrial, automotive, and aerospace logistics, this label enables versatile uses such as inventory management, product returns, and data privacy. Additionally, NFC compatibility allows consumers to interact via smartphones for product verification, information, or loyalty programs.

Physical Information	Material	Coated Paper
	Label Size	45 × 25 mm
	Antenna Size	40 × 20 mm
	Operating Environment	-40°C~+70°C, 20%~90% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Mounting Method	Stick
	Surface	Paper carton, plastic, wood
	Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Labels with black-dot marks are bad ones, do not use.

Technical Information	Operating Frequency	HF 13.56 MHz & UHF 860-960 MHz
	Protocol	HF ISO/IEC 15693, 18000-3 Mode 1, NFC Forum Type 5 Tag UHF ISO/IEC 18000-63, EPCTM Gen2v2, ISO/IEC 29167-10
	Chip Type	EM4425 (em echo-V)
	EEPROM	2048-bit memory used for HF USER memory, UHF USER memory, EPC/Ull encoding (up to 480 bits),Optional digital signature storage (256, 384, or 512 bits)
	Security Features	Tamper Detection AES-128 crypto for NFC web based authentication Digital signature for authenticity

Packaging Information	Packing Format	Packed in roll, vacuumed packing in ESD bag
	Roll OD	Max. 170 mm
	Core ID	3 inch (76.2 ± 0.50 mm)
	Packing Quantity	2500 Pcs/roll, per roll 1.13 kg

Label Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
 ● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice.
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