



NXP UCODE® 8 UHF On-Metal RFID Label



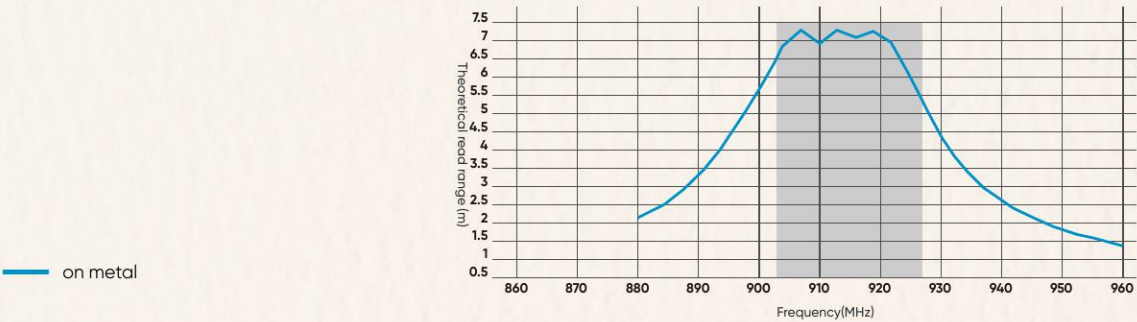
SKU:	RS-U8-OMPET-5015
Chip Type:	NXP UCODE® 8
Frequency:	UHF 860-960 MHz
EPC Memory:	128 bits
TID Memory:	96 bits
Read Range:	7.6m on metal (US); 6.5m, on metal (EU)
Protocol:	ISO IEC 18000-63, EPC Global Gen2v2
Industry:	Apparel and Fashion, Automotive, Aviation, Healthcare, Logistics, Industrial Applications, Retail, Laboratory
Applications:	Asset Tracking, Electronics, Gaming and Toys, Inventory, Metal and Liquids, Warehouse

Featuring the NXP UCODE® 8 chip, the Flexible & Printable UHF On-Metal Label offers advanced functionality for complex tracking needs. This RFID chip is built for enhanced performance, offering large memory capacity and strong anti-collision capabilities, which allow it to perform exceptionally well in busy RFID environments.

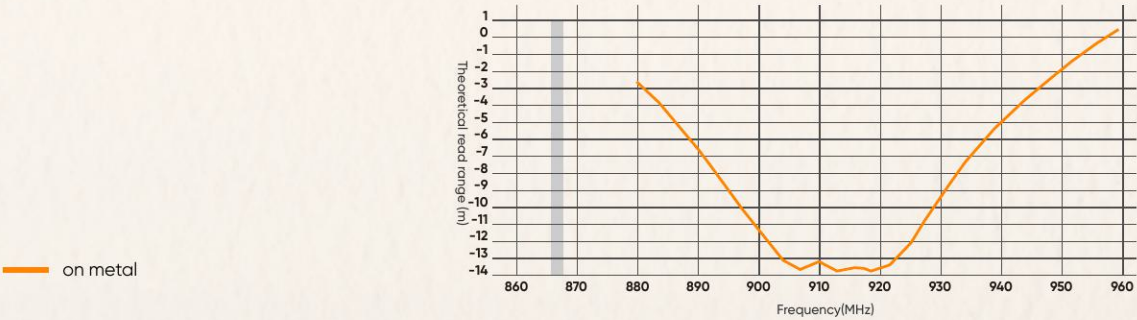
Whether you're managing metal containers, automotive parts, or IT assets, this label can be easily printed, encoded, and securely affixed to metal surfaces, including uneven and curved ones, ensuring optimal performance in demanding conditions.

Reading performance

Reading Range Under Different Frequency



Tag Power Under Different Frequency



Physical Information

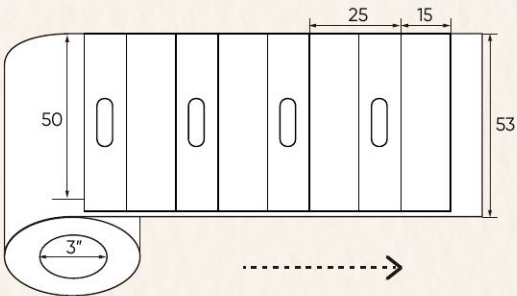
Material	PET & Aluminum Foil & Foam
Size	50×15×1 mm
Operating Environment	-40°C ~ +70°C, 20% ~ 90% RH
Storage Environment	18°C ~ 28°C, 40% ~ 60% RH
Mounting Method	Stick
Surface	Paper Carton, Plastic, Wood,Metal
IP Rating	IP68
Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Inlays with black-dot marks are bad ones, do not use.

Technical Information

Operating Frequency	UHF 860-960 MHz
Communication Protocol	ISO IEC 18000-63, EPC Global Gen2v2
Read Range	7.6m On Metal (US); 6.5m, On Metal (EU)
Chip Type	NXP UCODE® 8
EPC Memory	128 bits
TID Memory	96 bits
Authentication	Support Memory Safeguard

Packing Information	Packing Format	Packed in roll, vacuummed packing in ESD bag.
	Roll OD	Max. 152 mm
	Core ID	3 inch/76.2 ± 0.50mm
	Packing Quantity	500 Pcs/roll, per roll 0.56 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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