



NXP UCODE® 8 UHF On-Metal RFID Label

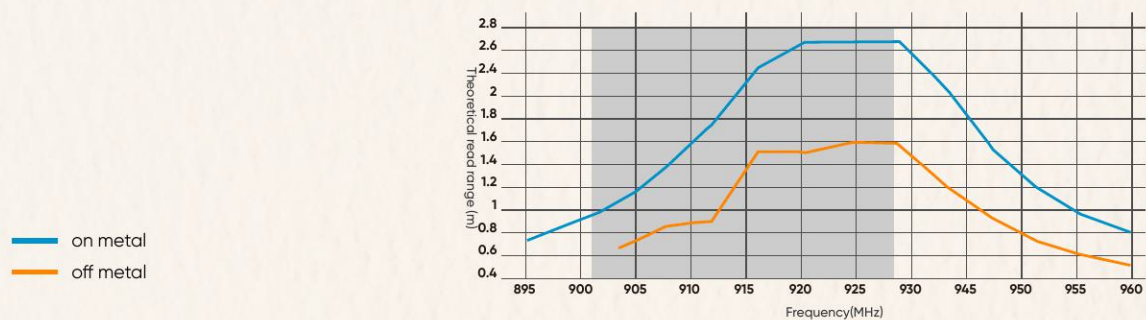
SKU:	RS-U8-OMPET3M-3015
Chip Type:	NXP UCODE® 8
Frequency:	UHF 860-960 MHz
EPC Memory:	128 96 bits
Read Range:	2.7m on-metal, 1.7m off-metal 1.5m on-metal, 1m off-metal
Protocol:	ISO IEC 18000-63, EPC Global Gen2v2
Industry:	Apparel and Fashion, Automotive,Aviation, Healthcare,Logistics, Industrial Applications, Retail,Laboratory
Applications:	Asset Tracking, Electronics, Gaming and Toys,Inventory, Metal and Liquids,Warehouse

The On-Metal Label features an embedded NXP® UCODE® 8 RFID chip, offering superior performance for a wide range of tracking applications. Its RFID capabilities offer long-lasting reliability and performance, making it the perfect choice for environments where traditional labels may fail, and providing a seamless tracking experience.

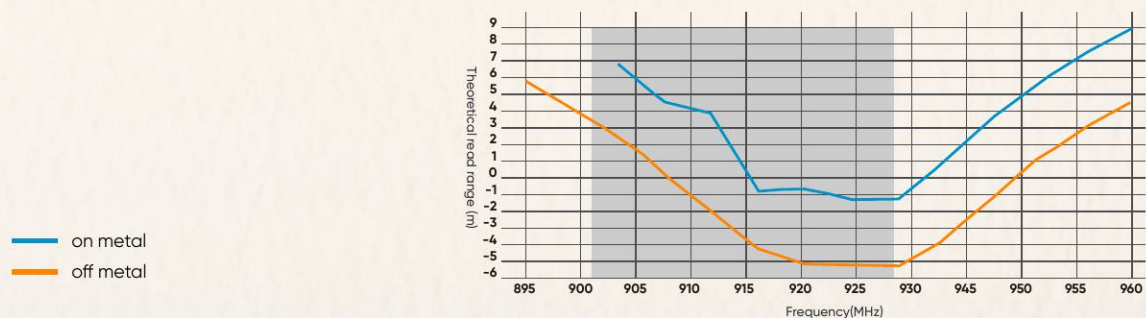
This high-performance chip ensures enhanced read range, faster response times, and robust anti-collision capabilities, making it ideal for tracking metallic containers, equipment, devices, automotive components, and IT assets. With the NXP® UCODE® 8 chip, the label excels in challenging environments, adhering securely to metallic surfaces, even on uneven or curved areas.

Reading performance

Reading Range Under Different Frequency



Tag Power Under Different Frequency



Physical Information

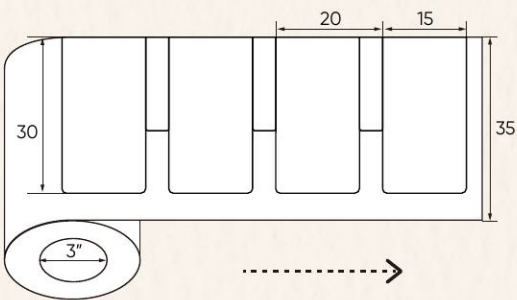
Material	PET & Aluminum Foil & Foam
Size	30×15×1.25 mm
Operating Environment	-40°C ~ +70°C, 20% ~ 90% RH
Storage Environment	18°C ~ 28°C, 40% ~ 60% RH
Mounting Method	Stick
IP Rating	IP68
Handling Precautions	1. Do not bend. 2. Keep away from water and collision. 3. Inlays with black-dot marks are bad ones, do not use.

Technical Information

Operating Frequency	UHF 860-960 MHz
Communication Protocol	ISO IEC 18000-63, EPC Global Gen2v2
Read Range	10m On-Metal, 12m Off-Metal (2W ERP FCC) 8m On-Metal, 7m Off-Metal (2W ERP ETSI)
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	800Pcs/roll, per roll 0.5 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.
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