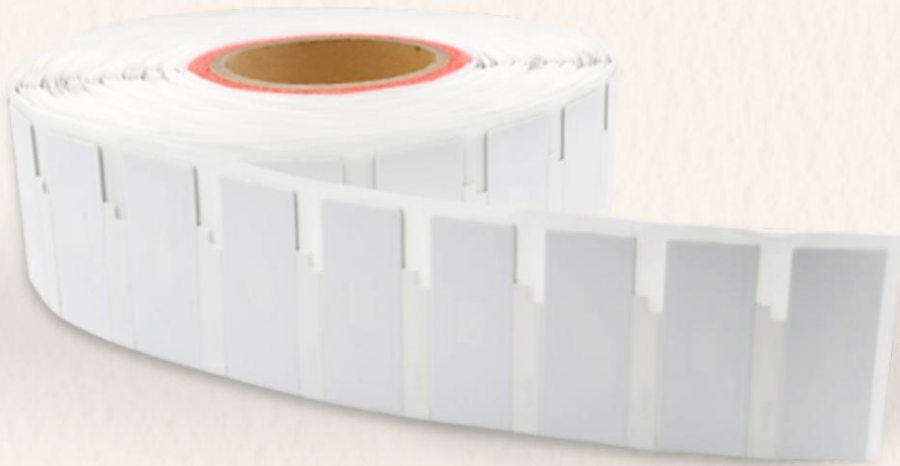




NXP® UCODE® 8 Flexible & Printable UHF On-Metal RFID Label



SKU:	RS-U8-OMPET-7030
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 865-868 MHz (EU)
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
EPC Memory:	128 bits
TID Memory:	96 bits
Read Range: (Fixed Reader)	12m on metal (FCC), 10m on metal (ETSI)
Read Range: (Handheld Reader)	6m on metal (FCC), 8m on metal (ETSI)
Industry:	Retail, Logistics, Automotive, Aviation
Applications:	Inventory, Asset Tracking, Warehouse, Cable Management, Electronics, Metal, Vehicle Tracking

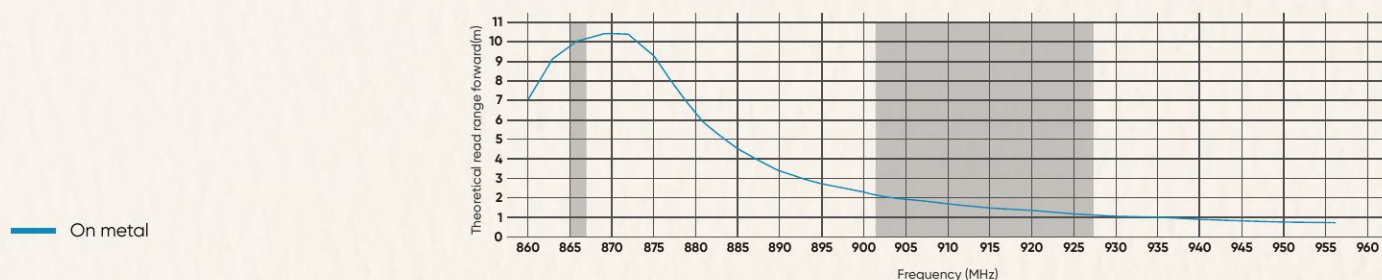


The 70×30mm NXP® UCODE® 8 Flexible & Printable UHF On-Metal RFID Label is a high-performance tagging solution optimized for metallic assets and industrial surfaces. Utilizing the latest UCODE® 8 chip, the label delivers excellent read accuracy, fast encoding speed, and extended read distances, ensuring dependable identification even in RF-challenging environments. Its flexible inlay design enables smooth application on flat, curved, or textured metal surfaces, making it suitable for asset tracking, tool management, and warehouse logistics.

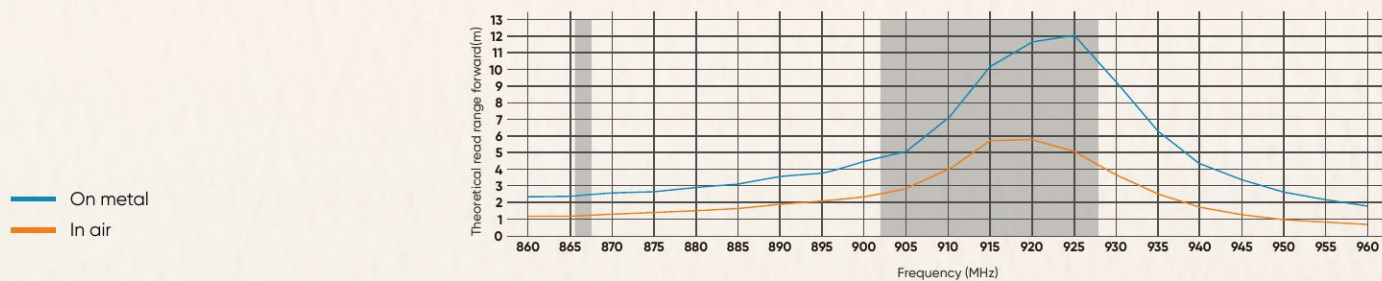
Featuring a printable PET top layer, this RFID label supports full customization, including logos, serial numbers, and barcodes. The strong adhesive ensures stable bonding on metal substrates, while the robust construction provides resistance to heat, abrasion, and outdoor conditions. Compliant with ISO/IEC 18000-6C and EPCglobal Gen2v2, this UHF on-metal label combines durability and high RF efficiency, offering a reliable method for long-term identification and streamlined operations.

Reading Performance

Reading Range @ETSI Standard



Reading Range @FCC Standard



Physical Information

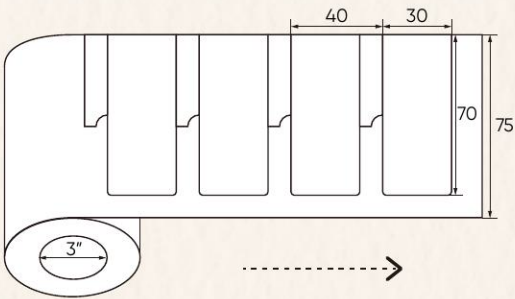
Material	PET + Aluminum Foil + Foam
Label Size (L×W×T)	70×30×1 mm
Operating Environment	-20°C~+50°C, 20%~80% RH
Storage Environment	+18°C~+28°C, 40%~60% RH
Mounting Method	Stick
Surface	Paper Carton, Plastic, Wood, Metal
Support Printer	SATO CL4NX, Zebra ZT410 Silverline, Postek TX3r, etc.
Customization	Printing LOGO, Barcode, Serial number, Encoding, Designing, etc.
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	865~868 MHz (EU)
Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
Chip Type	NXP® UCODE® 8
EPC Memory	128 bits
TID Memory	96 bits
Unique Serial Number	48 bits
Read Range(Fixed Reader)	10m on metal (ETSI), 12m on metal (FCC)
Read Range(Handheld Reader)	8m on metal (ETSI), 6m on metal (FCC)
Security Features	32 bits Access & Kill Password

Packing Information	Packing Format	Packed in roll, vacuummed packing in ESD bag
	Roll OD	Max. 220 mm
	Core ID	3 inch(76.2 ± 0.50 mm)
	Packing Quantity	500pcs/roll, weight per roll 1kg

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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