RFIDBridge

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

SKU:	RS-U8-LROMPET-6025
Chip Type:	NXP® UCODE® 8
Frequency:	UHF 902-928 MHz(US)
EPC Memory:	128 bits
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Read Range: (FCC)	Up to 9.5 m(On-metal, Fixed Reader); Up to 6 m(On-metal, Handheld Reader)
Industry:	IT, Manufacturing, Industrial Operations, Warehousing, Logistics, Construction, Healthcare Laboratories
Applications:	Metal Asset Tracking, Equipment Identification, Inventory Audits, Asset Check-In and Check-Out, Calibration Tracking, Warehouse Asset Control

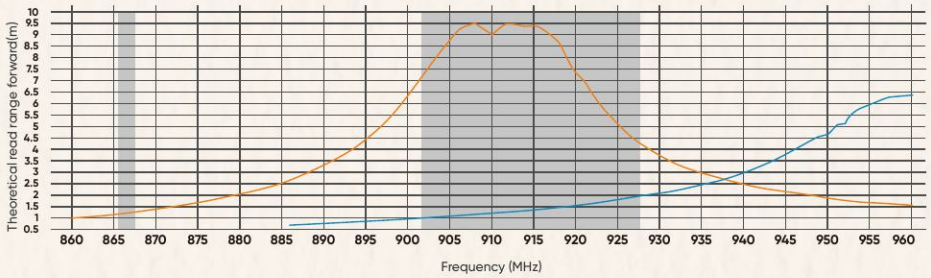
The NXP® UCODE® 8 On-Metal Printable UHF RFID Label is designed for secure and reliable identification of metallic assets in demanding industrial and supply chain environments. Compliant with ISO/IEC 18000-63 and EPCglobal Gen2v2, it integrates easily with existing UHF RFID systems to support accurate asset tracking, inventory management, and supply chain visibility.

Designed specifically for metal surfaces, this label features a folded side-flap structure that helps reduce interference from surrounding materials, improve UHF RFID read stability, and extend the read range. With its printable surface and dependable on-metal performance, it is a practical choice for metal asset identification, equipment tracking, warehouse operations, and industrial applications.

Reading Performance

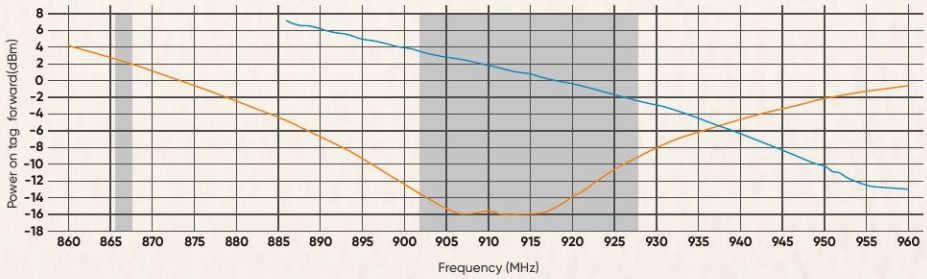
Reading Range Under Different Frequency

On metal
In air



Tag Power Under Different Frequency

On metal
In air



Physical Information

Material	PET & Aluminum Foil & Foam
Label Size	60×25×1 mm(L× W ×T)
Operating Environment	-40°C~+85°C, 35%~65% 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.

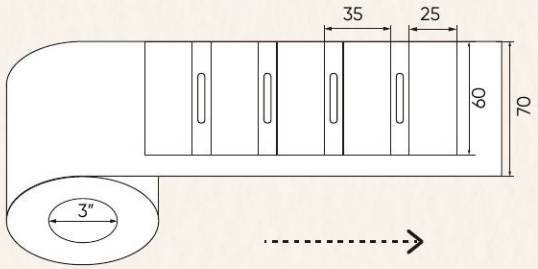
Technical Information

Operating Frequency	902-928 MHz(US)
Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
Chip Type	NXP® UCODE® 8
EPC Memory	128 bits
User Memory	0 bits
TID Memory	96 bits
Unique Serial Number	48 bits
Security Features	32 bits Access & Kill Password
Read Range(FCC)	Up to 9.5 m (On-metal, Fixed Reader); Up to 6 m (On-metal, Handheld Reader)

Packing Information

Packing Format	Packed in roll, vacuumed packing in ESD bag
Roll OD	Max. 8.7inch/220 mm
Core ID	3 inch/76.2 ± 0.50mm
Packing Quantity	500 pcs/roll, per roll 0.85 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. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change rfidbridge.com s not liable for use-related issues or outcomes.

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To learn more about our RFID solutions or request a customized product or integration, please visit our website at https://www.rfidbridge.com or reach out to our sales team directly at sales@rfidbridge.com.