



NXP® UCODE® 7m UHF RFID PPS Laundry Tag

SKU:	RS-U7M-LTPPS-D20
Chip Type:	NXP® UCODE® 7m
Frequency:	UHF 902-928 MHz (or customized)
EPC Memory:	128 bits
User Memory:	32 bits
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2.0
IP Rating:	IP 67
Washing Cycles:	200 washing cycles
Industry:	Healthcare, Hospitality
Applications:	Laundry



The NXP® UCODE® 7m UHF RFID PPS Laundry Tag is a compact and rugged UHF RFID tag designed for high-performance textile and laundry applications. It operates in the 902–928 MHz range (customizable) and complies with EPCglobal Gen2v2.0 and ISO/IEC 18000–63 standards, offering 128-bit EPC memory and 32-bit user memory. With IP67 protection and resistance to high temperatures, this tag is engineered to withstand up to 200 industrial washing cycles.

Constructed with PPS material and high-temperature epoxy adhesive, the tag has a diameter of 20 mm and thickness of 2.6 mm, weighing just 1.28 g. It supports sew-in mounting (put it inside the cloth bag and sew it) and is ideal for uniforms, workwear, and linen tracking.

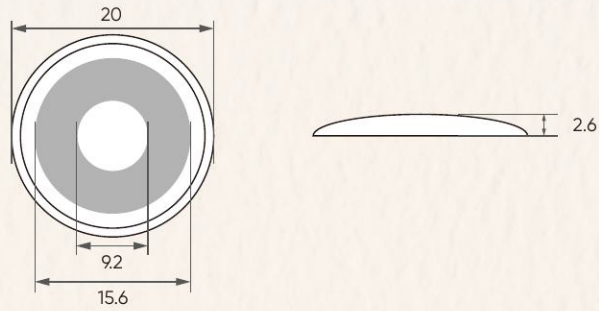
Physical Information	Material	PPS and high temperature resistant epoxy adhesive
	Size	Diameter 20 mm, thickness 2.6 mm(accuracy ±0.2 mm)
	Weight	1.28 g
	Surface Color	Black
	Operating Environment	-25°C~+110°C
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Mounting Method	Sew(put it inside the cloth bag and sew it)

Technical Information	Operating Frequency	902-928 MHz(or customized)
	Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2.0
	Chip Type	NXP® UCODE® 7m
	EPC Memory	128 bits
	User Memory	32 bits
	Read Range (on metal)	Fixed Reader(non-metallic): Over 0.4 meters (4W EIRP, using Alien9900 fixed reader, other readers may have different reading distances) Handheld Reader(non-metallic): 0.1 meter(using 30dbi power handheld reader in open outdoor space. If other handheld devices are used, the reading distance may be different)
	Security Features	Pre-serialization for 96 bits EPC 96 bits Tag Identifier(TID) factory locked 48 bits unique serial number factory-encoded into TID 32 bits access password

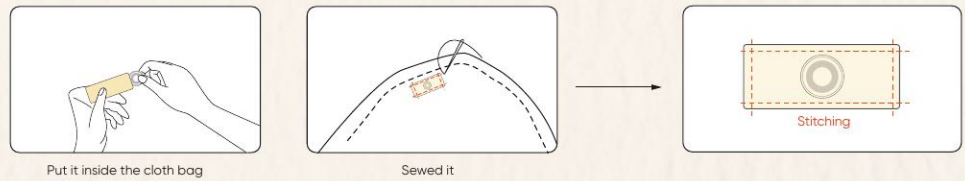
Testing Information	Short-term Heat Resistance	180°C for 2 minutes
	Drop Test	Passed 200 drops from 1 meter
	Alcohol Test	Passed by cleaning with 95% alcohol
	Gasoline Testing	Passed by cleaning with 92# gasoline
	High and Low Temperature Alternation Test	-40°C to +150°C 7 times high and low temperature alternation cycle, a total of 2 consecutive days of testing passed
	IP Rating	IP 67
	Washing Cycles	200 washing cycles

Packaging Information	Packing Format	Packed in carton
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Size and Specification Drawing
(Unit: mm)



Mounting Methods



Put it inside the cloth bag and sew it(do not sew through the tag when stitching)

● **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](https://www.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](https://www.rfidbridge.com) is not liable for use-related issues or outcomes.