



Data Sheet

Fujitsu WT-A546/ A548 UHF RFID Tag

Wash, dry, track, repeat

Designed for superior performance and durability with flat linen applications, the industrial-strength WT-A546 and WT-A548 RFID Tags withstand high-pressure extractors without sacrificing quality or performance. The ruggedized tags come in a compact footprint smaller than competitor tags, allowing for insertion into any type of flat linen while going virtually unnoticeable.



PERFORMANCE THAT KEEPS UP

The WT-A546/A548 RFID Tags combine a flexible, compact design with the durability needed for demanding linen operations. Its small form factor makes attachment simple, while its lower cost of entry helps improve your bottom line. Built

to withstand repeated washing, drying, and dry-cleaning cycles, the tag can easily handle high-pressure extractors up to 60 bar. With near-100% accuracy, these RFID tags streamline inventory tracking and improve inventory management.

Reduce costs, simplify linen handling, and improve inventory accuracy with a durable, compact tag built for demanding environments.

The WT-A546 and WT-A548 RFID Tags give commercial and industrial laundries a more efficient way to identify, sort, and track flat linens such as towels, sheets, and pillowcases. By capturing hundreds of tagged items in a single pass, laundries can enhance asset tracking, speed up inventory management processes, and provide greater visibility into linen movement at all stages of the laundry process without adding unnecessary complexity or cost.

All data are results performed in our test condition according to Japan Industrial Standard JIS L 0217 - 102, 301, 401, 402. Your test result may vary.

**1: Reading distance with the condition that textile and attached tag are dry*

**2: When used according to the specification, unless otherwise noted*

**3: Dry cleaning cycle time is once per day*

**4: The tag has been tested 10 times under the conditions in the JIS L 0856 Severe test*

**5: This test was conducted under Fujitsu Frontech's laboratory*

Material and Design Specifications

Model	WT-A546	WT-A548
Size & Weight	52.5 (W) x 6.5 (D) x 2.4 (H) mm, 1.0g	59.5 (W) x 6.5 (D) x 2.4 (H) mm, 1.0g
Temperature	Operating: -20 to 50 °C, 10 to 95% RH Storage: -40 to 55 °C, 8 to 95% RH	
Read Range (Textile* ¹)	902-928 MHz: 4W eirp 250 cm (Typical); 2W erp 220 cm (Typical) 865.6-867.7 MHz: 2W erp 250 cm (Typical)	902-928 MHz: 4W eirp 400 cm (Typical); 2W erp 360 cm (Typical) 865.6-867.7 MHz: 2W erp 340 cm (Typical)
Read Range (Rubber Mat)	902-928 MHz: 4W eirp 230 cm (Typical); 2W erp 200 cm (Typical) 865.6-867.7 MHz: 2W erp: 380 cm (Typical)	902-928 MHz: 4W eirp 310 cm (Typical); 2W erp 280 cm (Typical) 865.6-867.7 MHz: 2W erp: 410 cm (Typical)
Tagging	Directly sewing in hem, seam of linen items; Sewing with patch/pouch	
Lifecycle	200 washing cycles or 3 years from shipping date, whichever comes first* ²	
Washing Method	Laundry (PERC and Petroleum based solvents)* ³	
Tag Type	Passive	
EPC Number Area	96 bit/ unlock (pre-written by Fujitsu)	
Heat Resistance	Drying: 85 °C (Up to 60 min.) or 120 °C (Up to 10 min.) Ironing: 200 °C (Up to 10 sec. with press cloth)	
RFID Standard	ISO/IEC 18000-63 (EPC Gen2)	
Chemical Resistance	Standard Detergent, Softener, Bleach (Oxygen/ Chlorine* ⁴), Alkali, Acetic/Peracetic Acid	
Autoclave Sterilization	121 °C, 15-20 minutes, 80 cycles* ⁵	
RFID Standard	ISO/IEC 18000-63 (EPC Gen2)	
MRI Safety Information	MR Conditional (Static magnetic field of 1.5T/3T)	
Water Extraction Pressure	60 bar	

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