



Data Sheet

Fujitsu WT-A533G

UHF RFID

Garment Tag

Virtually unnoticeable

Garment tracking requires accuracy without adding bulk. The WT-A533G RFID Garment Tag offers a smarter way to keep uniforms, workwear, and rental garments visible throughout your operation. At just 0.6 mm thick, its virtually transparent design can be integrated into garments with heat-seal labels while remaining nearly unnoticeable to the wearer, improving inventory visibility and workflows.

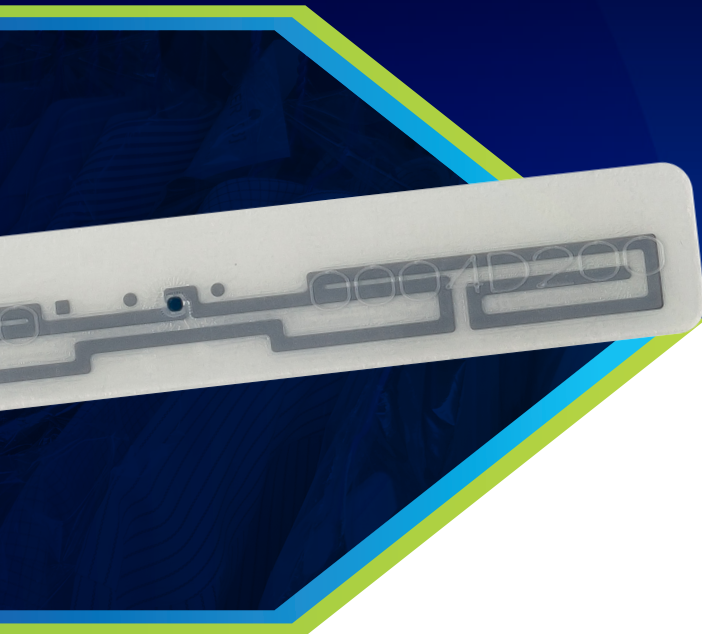


TRACK GARMENTS WITHOUT BEING NOTICED

With a slim, nearly transparent design that integrates into garments without compromising appearance or comfort, the WT-A533G makes RFID adoption easier for laundry operators. Flexible heat-seal and adhesive installation options simplify

deployment, while an advanced antenna delivers high-performance reads across hundreds of garments simultaneously. The result is faster processing, easier implementation, and a cost-effective approach to garment tracking.

Virtually invisible garment tracking for smarter inventory management in demanding laundry environments.



RFID should improve your processes without becoming another operational burden. The WT-A533G RFID Garment Tag is designed to work in the real world. It fits naturally into high-volume commercial laundry operations, helping teams track garments easily and gain control over items as they move through the entire laundry cycle. Ultimately, it gives operators a practical path to easily enhance inventory management while building a smarter, scalable laundry operation.

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: Verified with independent testing - nominal industrial laundry conditions*

**2: Conditions for washing: Conventional washers/dryers excluding water extraction press*

**3: Conditions for dry cleaning: Up to 10 minutes/cycle for washing, and 30 minutes/cycle up to 60 °C for drying*

**4: Last 32 bits are not specified. Modifying EPC area is not covered by product warranty.*

**5: When heat sealing the tags, please do not exceed above conditions*

Material and Design Specifications

Size & Weight	55 (W) x 9 (D) x 0.6 (H) mm, 0.4g
Temperature	Operating: -20 to 50 °C, 10 to 95% RH Storage: -40 to 55 °C, 8 to 95% RH
Read Range	902-928 MHz: 4W eirp 190 cm (Typical) Air, 230 cm (Typical) with heat seal; 2W erp: 170 cm (Typical), 200 cm (Typical) Air 865.6-867.7 MHz: 2W erp 100 cm (Typical) Air, 130 cm (Typical) with heat seal
Tagging	Heat sealing, seam insertion, pouch
Lifecycle	100 washing cycles/dry cleaning or 3 years from shipping date without usage, whichever comes first ^{*1}
Washing Method	Laundry, Standard Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali ^{*2} Dry cleaning (PERC and petroleum based solvents) ^{*3}
Tag Type	Passive
EPC Number Area	128bit/ unlock (first 96bit are pre-written by Fujitsu) ^{*4}
Heat Resistance	Drying: 85 °C (Up to 60 min.) or 120 °C (Up to 20 min.) Ironing: 200 °C (Up to 10 sec. with press cloth)
RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
MRI Safety Information	MR Conditional (Static magnetic field of 1.5T & 3T)
Heat Sealing Conditions (max) ^{*5}	Temp (Celsius): 220° Time (seconds): 15 Pressure (bar): 7
Regulations	RoHS: Conforms to RoHS regulations China RoHS: Conforms to Administrative Measure on the Control of Pollution Caused by Electronic Information Products

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