

Data Sheet

UHF RFID Garment Tag

Fujitsu WT-A533G

Wash, dry, track, repeat

Fujitsu's latest UHF RFID garment tags are designed for high-performance reading in rental garments, uniform and work wear applications. Designed with an incredibly thin form factor of just 0.6mm thick, the Fujitsu WT-A533G Garment Tag can be easily attached to garments with heat seal labels and be virtually unnoticeable. The tag is built to withstand typical garment industrial laundry and dry-cleaning equipment and processes without losing performance. As with Fujitsu's linen tags, the WT-A533G Garment Tag uses advanced antenna technology that allows for reading hundreds of items while reducing misreads of nearby tags. Fujitsu's ultra-thin WT-A533G RFID Garment Tag is the ideal solution for tracking and sorting in the rental garment, uniform and work wear industry.

Key Features

- Smaller form factor is just 0.6mm thick
- Virtually transparent when attached to garments
- Designed for easy attachment with heat seal labels
- Adhesive layer simplifies installation processes
- Advanced antenna design for exceptional read rates
- Cost effective for easy adoption
- High performance reads hundreds of tags simultaneously

With Fujitsu's innovative UHF RFID tag solutions, commercial and industrial laundries can greatly enhance asset tracking processes and improve staff efficiency when sorting and tracking garments. The WT-A533G Garment Tag was purposefully designed to perform inventory management easily and accurately, reading multiple tags at once with extremely low error rates. Fujitsu's unique tag-on-roll solution along with the WT-A533G's ultra-thin design allow for simplified attachment to garments in bulk so that garment owners don't have to slow down operations to start using tags.



Fujitsu WT-A533G Garment Tag Specifications

RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
Regulations	RoHS: Conforms to RoHS regulations China RoHS: Conforms to Administrative Measure on the Control of Pollution Caused by Electronic Information Products
MRI Safety Information	MR Conditional (Static magnetic field of 1.5-T and 3-T)
Size & Weight	55 (W) x 9 (D) x 0.6 (H) mm, 0.4g
Tag Type	Passive
EPC Number Area	128bit/ unlock (The first 96bit are pre-written by Fujitsu)* ¹
Memory	NONE
Reading 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
Estimated Lifetime	100 washing cycles/dry cleaning or 3 years from shipping date without usage, whichever comes first* ²
Washing Method	Laundry, Standard Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali* ³ Dry cleaning (PERC and petroleum based solvents)* 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)
Temperature/Humidity	Operating: -20 to 50 °C, 10 to 95% RH Storage: -40 to 55 °C, 8 to 95% RH
Heat Sealing Conditions (max)* ⁵	Temp (Celsius): 220° Time (seconds): 15 Pressure (bar): 7

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

*2: Verified with independent testing - nominal industrial laundry conditions

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

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

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



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