

Data Sheet

UHF RFID Garment Tag

Fujitsu WT-A533G

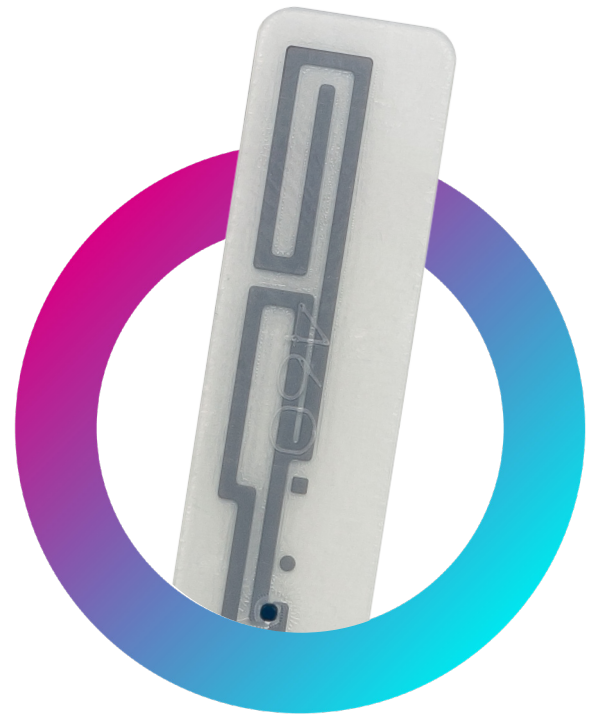
Wash, dry, track, repeat

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 |

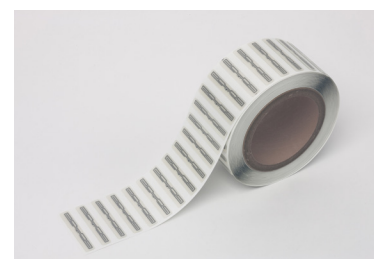
All data are results performed in our test condition according to Japan Industrial Standard JIS L 0217 - 102, 301, 401, 402. Your test result may vary.

*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



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