

Data Sheet

UHF RFID Linen Tag

Fujitsu WT-A533HT

Wash, dry, track, repeat

Fujitsu's ultra-rugged WT-A533HT High Temperature RFID Tag was specifically designed for businesses involved with healthcare to accurately manage textile, linen and garment assets at an affordable cost with rapid ROI. The WT-A533HT RFID Tag enables businesses to read hundreds of tagged items in a single pass, while withstanding high temperatures required for sterilization. Inventory management can be performed accurately and easily by reading multiple tags simultaneously with the extended range and accuracy of state-of-the-art UHF tag technology. Advanced antenna technology allows for accurate reading of hundreds of items while reducing misreads of nearby tags. With the WT-A533HT RFID Tag, customers will greatly improve receiving, shipping, and tracking assets while keeping their costs low.



Key Features

- UHF technology to read hundreds of tags simultaneously
- More than 8-foot reading distance
- New mechanical design for improved performance for flat linens
- Exceptional durability for washing, drying, dry cleaning and ironing
- Suitable for high-pressure extractors up to 60 bar
- Cost effective for easy adoption
- Flexible material ideal for textiles, linens, garments and more

Fujitsu's innovative UHF RFID tag solutions greatly enhance asset tracking processes and improve efficiency when sorting and tracking linens at commercial and industrial laundries. The WT-A533HT RFID Tag was designed for high-level performance at an affordable cost, providing cost-efficient RFID-enabled inventory management. The WT-A533HT tag easily and accurately reads multiple tags at once in an eight-foot radius. The 100 percent non-magnetic construction means the tag is suitable for hospital use, and the soft material means it is flexible and durable enough to withstand hundreds of washing cycles.

Fujitsu WT-A533HT RFID Tag Specifications

RFID Standard	ISO/IEC 18000-63 (EPC Gen2)
Size & Weight	55(W) x 10 (D) x 1.6 (H) mm, 1.05g
EPC Number Area	128bit (The first 96bit are pre-written by Fujitsu)
User Memory	NONE
Reading Range	Textile: 902-928 MHz: 4W eirp 250 cm; 2W erp 200 cm 865.6-867.7 MHz: 4W eirp 200 cm; 2W erp 200 cm Rubber Mat: 902-928 MHz: 4W eirp 200 cm; 2W erp 200 cm 865.6-867.7 MHz: 4W eirp 200 cm; 2W erp 200 cm
Tagging	Sewing, Heat-sealing, Pouch
Estimated Lifetime	200 washing cycles/dry cleaning or 3 years from shipping date, whichever comes first*1
Estimated Annual Failure Rate	Less than 0.5% excluding DOA (Excludes discoloration, bending, distortion, etc. due to normal use)
Washing Method	Laundry, Dry cleaning*2 (Perchloroethylene, Hydrocarbon solvent)
Water Extraction Pressure	60 bar *3
Chemical Resistance	Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali *4
Autoclave Heat Sterilization	121 °C, 15-20 minutes *5; 135 °C for 5 minutes *6
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)
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: Nominal industrial laundry conditions, 40 bar water extraction pressure

*2: Conditions for dry cleaning: Up to 10min./cycle (Washing), More than 30min./cycle within 60 °C (Drying)

*3: Tested in Fujitsu Frontech Laundry testing condition: 100 cycles at 60 bar with a simulated extractor press.

*4: The tag has been tested for 10 times at the condition of JIS L 0856 Severe test.

*5: 80 cycles or more depending on chamber conditions

*6: Fujitsu provides no warranty nor maintains liability for failure due to laundry or dry-cleaning chemicals not verified.



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