

Ultra-Rugged UHF RFID Tag

# UHF RFID Tag WT-A543

Wash, Dry,  
Track, Repeat.

## Ultra-Rugged UHF RFID Tags for Commercial and Industrial Textile Applications

- ▶ Small, soft, flexible material ideal for textiles, linens and garments
- ▶ New smaller form factor for direct inseam attachment
- ▶ 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
- ▶ Suitable for Autoclave sterilization
- ▶ UHF technology to read hundreds of tags simultaneously
- ▶ 100% non-magnetic construction, suitable for hospital use



**FUJITSU**

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## Fujitsu's Industrial RFID Flexible Linen Tags

Fujitsu latest industrial strength flexible UHF RFID tags have a smaller form factor for insertion into virtually any linen. Laundries will greatly improve linen and garment processing with near 100% accurate reading. Garment and Linen owners will see improved asset tracking and reduced loss, while keeping their costs low by improving workflow and efficiency.

### Advantages of UHF Technology

#### Speed

UHF efficiency increases tag read performance to read hundreds of tags in a single pass.

#### Rugged

Can withstand high pressure extractors and flatworks irons used in high-throughput laundries

#### Accuracy

Inventory management can be performed accurately and easily by reading multiple tags with very low error rates.

#### ROI

Installation of UHF technology will provide cost-effective garment management by reducing labor cost associated with barcode or high frequency RFID tags.



Specifications				
Model	Fujitsu RFID Tag WT-A543			
Standard	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 7 (D) x 1.6 (H) mm, 0.8g			
Tag Type	Passive			
EPC Number Area	96bit (unlock)			
User Memory	None			
Reading Range	Textile	902-928 MHz	4W eirp: 250 cm, 2W erp: 220 cm	
		865.6-867.7 MHz	2W erp: 200 cm	
	Rubber Mat	902-928 MHz	4W eirp: 200 cm	
		865.6-867.7 MHz	2W erp: 220 cm	
Tagging	Directly sewing into seam of linen items; sewing with patch/pouch, heat sealing			
Estimated Lifetime	200 washing cycles/dry cleaning or 3 years from shipping date, whichever comes first <sup>*1</sup>			
Estimated Failure Rate	0.5% excluding DOA (Excludes discoloration, bending, distortion, etc. due to normal use)			
Environmental Resistance	Washing Method	Laundry, Dry cleaning (Perchloroethylene, Hydrocarbon solvent) <sup>*2</sup>		
	Water Extraction Pressure	Up to 60 bar		
	Chemical Resistance	Standard Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali, Parasitic Acid		
	Autoclave Sterilization	121 °C, 20 minutes, 80 cycles <sup>*3</sup>		
	Heat Resistance	Drying	85 °C (Up to 60 min.) or 120 °C (Up to 10 min.)	
		Ironing	200 °C (Up to 10 sec.)	
	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: Verified with independent testing - nominal industrial laundry conditions

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

\*3: 80 cycles or more depending on chamber conditions



Fujitsu Frontech North America, Inc.  
<http://www.fujitsufrontechna.com>  
27121 Towne Centre Drive #100, Foothill Ranch, CA. 92610

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