

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		128bit/ unlock (The first 96bit are pre-written by Fujitsu) ^{*1}	
User Memory		None	
Reading Range	Textile	902-928 MHz	4W eirp: 250 cm (Typical), 2W erp: 220 cm (Typical)
		865.6-867.7 MHz	2W erp: 200 cm (Typical)
	Rubber Mat	902-928 MHz	4W eirp: 200 cm (Typical)
		865.6-867.7 MHz	2W erp: 220 cm (Typical)
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 ^{*2}	
Environmental Resistance	Washing Method		Laundry, Dry cleaning (Perchloroethylene, Hydrocarbon solvent) ^{*3}
	Water Extraction Pressure		Up to 60 bar
	Chemical Resistance		Standard Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali, Acetic/Peracetic Acid
	Autoclave Sterilization		121 °C, 20 minutes, 80 cycles ^{*4}
	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: 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 dry cleaning: Up to 10 minutes/cycle for washing, and 30 minutes/cycle within 60 °C for drying

*4: This test was conducted under Fujitsu Frontech's laboratory



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