RFID Solutions

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 *1
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) *2
	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 *3
	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

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