

Ultra-Rugged UHF RFID Tag

# UHF RFID Tag WT-A521/A522

Wash, Rinse,  
Track, Repeat.

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

- ▶ UHF technology to read hundreds of tags simultaneously
- ▶ More than 2-meter reading distance
- ▶ Cost efficient solution with exceptional durability for washing, drying, dry cleaning and ironing
- ▶ Suitable for high-pressure extractors up to 60 bar
- ▶ Small, soft, flexible material ideal for textiles, linens, garments and accessories
- ▶ Conforms to "ISO/IEC 18000-6 Type C (EPC Gen2)"
- ▶ 100% non-magnetic construction, suitable for hospital use



**FUJITSU**

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## Fujitsu's Flexible RFID Tags

Businesses can take advantage of the new ultra-rugged Fujitsu WT-A521/A522 flexible and Washable UHF RFID tags to manage their textile, linen and garment assets. Combining the efficiency of check-at-once inventory management with the extended range and accuracy of state-of-the-art UHF RFID tag technology, customers will greatly improve receiving, shipping, and tracking assets while keep 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-A521    Fujitsu RFID Tag WT-A522		
RFID Standard	ISO/IEC 18000-6 TypeC (EPC Gen2)		
Size & Weight	55(W)x10(D)x1.6(H)mm, 1g		
EPC Number Area	96bit permanent locked	96bit password locked	
User Memory	512 bits		
Reading Range	902-928MHz	4W eirp : 250 cm (Typical) 2W erp : 220 cm (Typical)	
	865.6-867.7 MHz	2W erp : 200 cm (Typical)	
Tagging	Sewing, Heat-sealing		
Estimated Lifetime	200 washing cycles or 3 years, whichever comes first		
Estimated Failure Rate	0.1% excluding DOA *1		
Environmental Resistance	Washing Method	Laundry, Dry cleaning*2 (Perchloroethylene, Hydrocarbon solvent)	
	Water Extraction Pressure	60 bar *3	
	Water Resistance	Water resistant	
	Chemical Resistance	Detergent, Softener, Bleach (Oxygen/ Chlorine), Alkali *4	
	Autoclave Heat Sterilization	121 °C for 15-20 minutes - 100 cycles	
	Heat Resistance	Drying	85 °C (Up to 60min.) or 120 °C (Up to 10 min.)
		Ironing	200 °C (Up to 10 sec. with press cloth)
Humidity/ Temperatur	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, 103, 301, 401, 402. Your test result may vary.

\*1: Excludes appearances (discoloration, bending, distortion, etc.) due to normal use.

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

\*3: Tested in Fujitsu Laundry testing conditions - 100 cycles.

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

Installation Notes:

*Do not attach near metal objects.*



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