

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 6 foot 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"
- ▶ 100% non-magnetic construction, suitable for hospital use




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Fujitsu's Flexible RFID Tags

Businesses can take advantage of the new ultra-rugged Fujitsu A521/A522 flexible and washable 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 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)
	WaterExtraction 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/ Temperature	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: Excludes appearances (discoloration, bending, distortion, etc.) due to normal use

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



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

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