

Flexible and Durable UHF RFID Tag

# Washable Tag (WT-A511/A611)

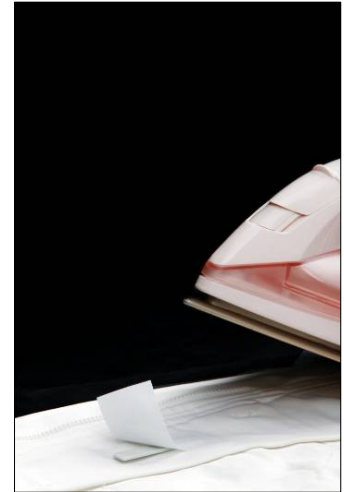
## Complete Flexibility



## High Durability



## Heat-seal Capability



## ■ Features

- ▶ UHF technology to read multiple tags simultaneously with up to 2 meter reading range
- ▶ Conforms to “ISO/IEC 18000-6 Type C”
- ▶ Exceptional durability for washing, drying, dry cleaning and ironing
- ▶ 40% less volume and 50% less weight than previous UHF Tags
- ▶ Small, soft, flexible material ideal for textiles, clothing, garments and accessories

## ■ Advantage of UHF Technology

### Speed:

UHF efficiency increases tag read performance to read more than 100 tags in a single pass.

### Accuracy:

Inventory management can be performed accurately and easily by reading multiple tags simultaneously.

### ROI:

Installation of UHF technology will provide cost-effective garment management.



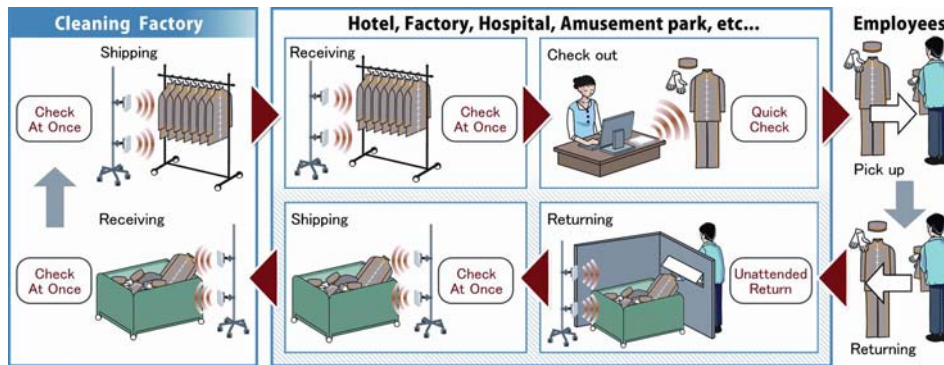
Scan Multiple Items

## ■ Main Applications

- Textile Products: Uniforms, Work Garments, Mops, Linens, Canvas Bags, etc.
- Plastic Products: Pallets, Containers, etc.
- Rubber Products: Dust Control Mats, etc.

# Applications

Businesses can take advantage of the new Fujitsu A511/A611 RFID tags to manage their washable 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.



# Specifications

Item		Specification		
Model		Fujitsu RFID Tag WT-A511	Fujitsu RFID Tag WT-A611	
Standard	RFID Standard	ISO/IEC 18000-6 TypeC (EPC Gen2)		
	Japanese Industrial Standard	Conforms to JIS L 0217 102, 103, 301, 401, 402 and JIS L 0856 Severe test		
Size & Weight		55(W)x10(D)x1.6(H)mm, 1g		
EPC Number Area		96bit <sup>*1(1)</sup>	96bit <sup>*1(2)</sup>	
Reading Range	Textile	902-928MHz	4W eirp: 190 cm (Typical), 2W erp: 171 cm (Typical)	
		865.6-867.7MHz	2W erp: 130 cm (Typical)	
	Mat	902-928MHz	4W eirp: 200 cm (Typical)	
		865.6-867.7MHz	2W erp: 220 cm (Typical)	
Tagging		Sewing, Heat-sealing		
Lifetime		200 washing cycles or 3 years from shipping date, whichever comes first <sup>*2</sup>		
Environmental Resistance	Washing Method		Laundry, Dry cleaning <sup>*3</sup> (Perchloroethylene, Hydrocarbon solvent)	
	Sterilization Method		Autoclave sterilization <sup>*4</sup>	
	Water Resistance		Water resistant	
	Chemical Resistance		Detergent, Softener, Bleach (Oxygen/ Chlorine <sup>*5</sup> ), Alkali	
	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)	
Humidity/ Temperature	Operating	-20 to 50°C, 10 to 95%RH		
	Storage	-40 to 55°C, 8 to 95%RH		

\*1: EPC Number Area is offered in either following states.

(1) Fujitsu EPC Number written and permanently locked.

(2) Written temporally number for reading test and unlocked.

\*2: The failure rate will be 0.1 percent under the use conditions described on our datasheet, excluding "Dead-On-Arrival" cases.

\*3: Dry cleaning conditions are as below.

- Up to 10 minutes/cycle (washing), and more than 30 minutes/cycle within 60°C (drying)

- Frequency of dry cleaning is limited to up to once a day. Rewashing on the same day after the drying process is completed is permitted only once.

\*4: Conditions of autoclave sterilization are; 121°C, 15-20 minutes, 100 cycles.

\*5: Regarding "Severe chlorine bleach", the tag has been tested 10 times under the conditions in the JIS L 0856 Severe test.

**Note** \* Do not use high pressure extractor in dehydration process.

\* All data are results performed in our test condition. Your test result may vary subject to your test condition.

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