

Flexible and Durable UHF RFID Tag

UHF RFID Tag

WT-A511/A611

Flexible UHF RFID Tags for Commercial and Industrial Textile Applications

- ▶ UHF technology to read hundreds of tags simultaneously
- ▶ Up to 6 foot reading distance
- ▶ Conforms to "ISO/IEC 18000-6 Type C"
- ▶ Cost efficient solution with exceptional durability for washing, drying, dry cleaning and ironing
- ▶ Small, soft, flexible material ideal for textiles, clothing, garments and accessories



FUJITSU

THE POSSIBILITIES ARE INFINITE

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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 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.

Applications

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



Fujitsu Frontech North America, Inc.

<http://www.fujitsufrontechna.com>

25902 Towne Centre Drive, Foothill Ranch, CA. 92610

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Specifications			
Model	Fujitsu RFID Tag WT-A511 Fujitsu RFID Tag WT-A611		
RFID Standard	ISO/IEC 18000-6 TypeC (EPC Gen2)		
Size & Weight	55(W)x10(D)x1.6(H)mm, 1g		
EPC Number Area*1	96bit pre-written	96bit blank	
Reading Range	902-928MHz	4W eirp : 190 cm (Typical) 2W erp : 171 cm (Typical)	
	865.6-867.7 MHz	2W erp : 130 cm (Typical)	
Tagging	Sewing, Heat-sealing		
Estimated Lifetime	200 washing cycles or 3 years, whichever comes first		
Estimated Failure Rate	0.1% excluding DOA*2		
Environmental Resistance	Washing Method	Laundry, Dry cleaning*3 (Perchloroethylene, Hydrocarbon solvent)	
	Water Resistance	Water resistant	
	Chemical Resistance	Detergent, Softener, Bleach (Oxygen/ Chlorine*4), Alkali	
	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, 217, 301, 401. Your test result may vary

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

*2: Under common operations

*3: Conditions of dry cleaning are as below.

-Up to 10min./cycle (Washing), More than 30min./cycle within 60°C (Drying)

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

Installation Notes

* Do not use high pressure extractors

* Do not attach near metal objects

