

Ultra Small Package Tag (UHF)

Hitachi Chemical
Working On Wonders

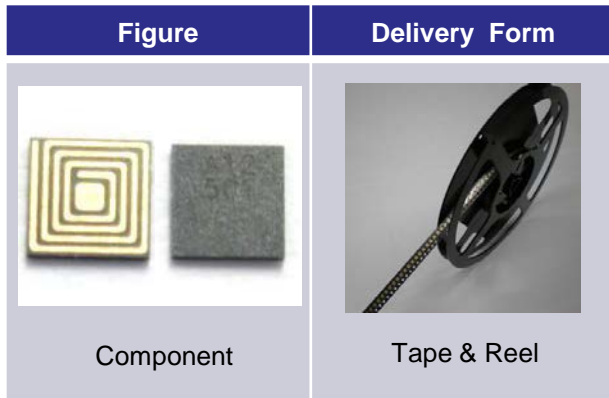
Feature

- Ultra Small Size UHF Tag with Built-in Antenna
- Easy to Expand Read Range with Booster Antenna.
- High Durability for Harsh Environment.

Application

- Applicable for Item Level Control
 - Electronic Parts
 - Medical Tools and Medicine
 - Cosmetic , Apparel, etc.

Figure



Specification

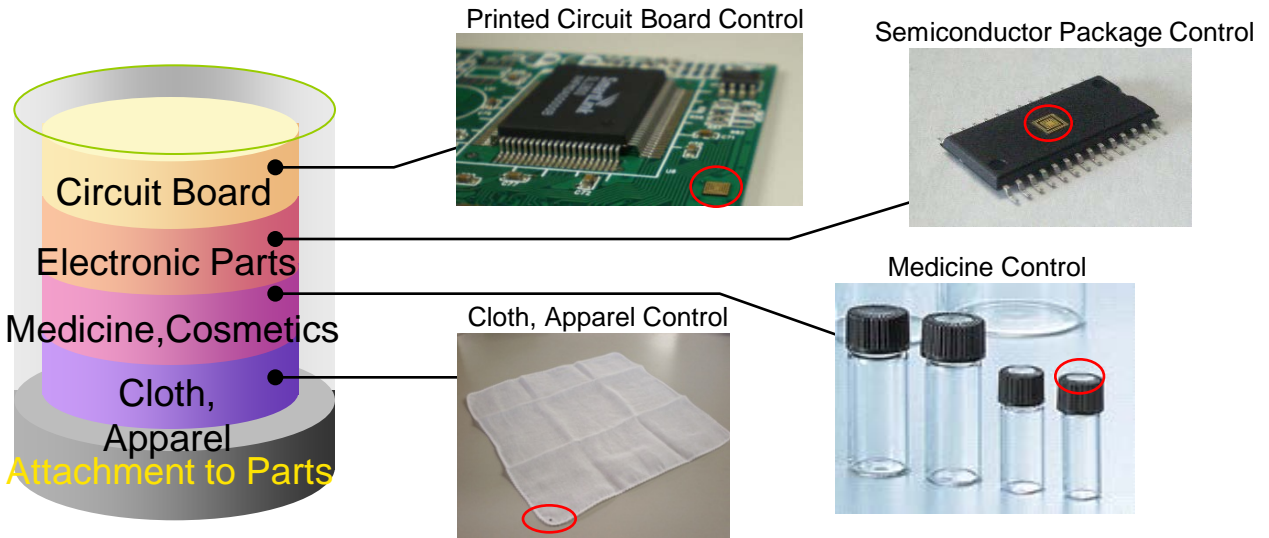
Item	Specification	
Type Code	IM5-PK2525	
Size	2.5mm × 2.5mm × 0.4mm	
Protocol	UHF EPC C1Gen2	
IC Chip	Impinj Monza5	
Memory	EPC	128bit(16Byte)
	TID	96bit(48bit Serial)

Characteristic

Item	Condition	Result	
Communication	Handy Reader (1W)	~1 cm	
Durability	Solder Process	260°C Solder	5 minute OK
	High Temp. Storage	100°C	1000 Hour OK
	High Temp. & High Humidity	85°C/85%RH	1000 Hour OK
	Low Temp. Storage	-40°C	1000 Hour OK
	Temp Cycle	-55°C~125°C	1000 cycle OK
Anti Chemical	Saline Solution (5%)		24 Hour OK
	Sodium Carbonate Solution (5%)		24 Hour OK
	Ethyl Alcohol Solution (60%)		24 Hour OK
	Sugar Water (10%)		24 Hour OK
	Ethylene Glycol Solution (50%)		24 Hour OK
	Acetic Acid Solution (5%)		24 Hour OK
	MEK		24 Hour OK
	Toluene		24 Hour OK
Gasoline		24 Hour OK	
Mechanical Strength	Load (Horizontal)	R1.5mm Metal Ball	20 N OK
Anti Static Electricity	Discharge	Both Sides (Front and Back)	±10 KV OK

Note: Above data are sampling value, and are not 100% tested.

Application Example



Expand Read Range By Booster Antenna



Booster (Example)	Material	Size	Read Range
	Metallic Wire	Φ5mm × 13mm	~0.5m
	Metallic Wire	60mm × 20mm	~2m
	Ag Paste Print	140mm	~1m
	Conductive Thread	140mm	~1.5m

Application Products

Apply to make very Durable Tag



Please see Video



Weldarble Metal TAG

Screw TAG

In-Metal Durable TAG

Contact

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