

Ultra Small Package Tag (UHF)

Feature

- Built-in Antenna i.e., Readable without External Antenna.
- Easy to Expand Read Range by Booster Antenna.
- Same Durability Level as Semiconductor Parts, Attachable to Various Items.

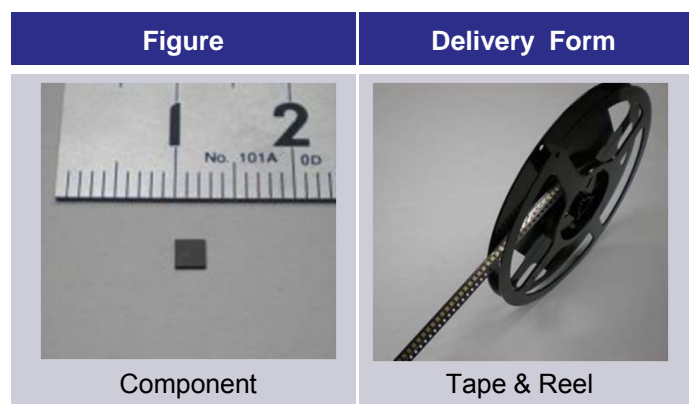
Application

- Applicable for Item Level Control
 - PCB
 - Electronic Parts
 - Medicine, Cosmetic
 - Apparel, Cloth, etc.

Specification

Item	Specification	
Class	IM5-PK2525	
Size	2.5mm × 2.5mm × 0.4mm	
Protocol	ISO/IEC18000-6 Type C EPC C1Gen2	
IC Chip	Impinj Monza5	
Memory	EPC	128bit(16Byte)
	TID	96bit(48bit Serial)

Figure

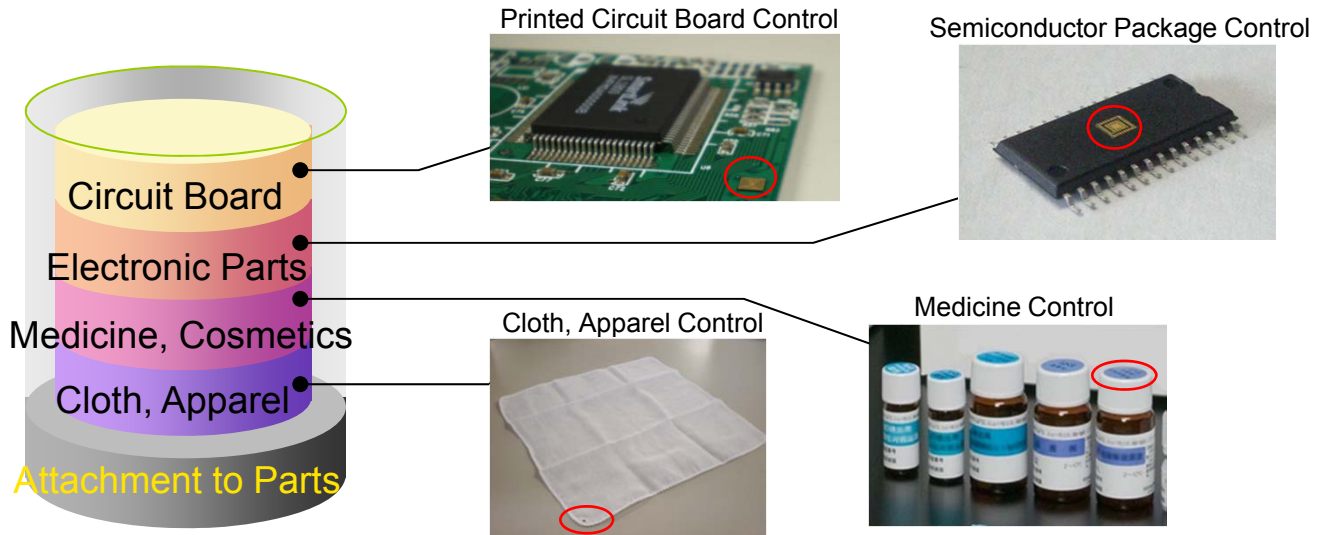


Characteristic

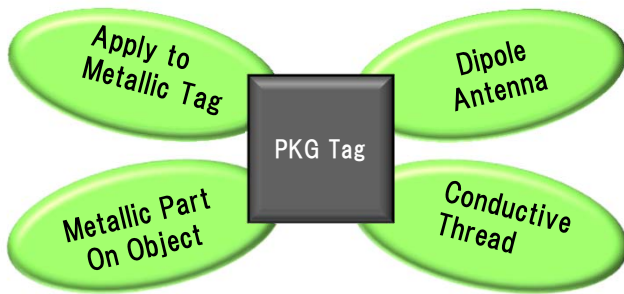
Item	Condition	Result	
Communication	Read Range Handy Reader (1W)	~1 cm	
Durability	Solder Process	260°C Solder	5 minute OK
	High Temp. Storage	100°C	1000 Hour OK
	High Temp. & High Humidity	85°C/85%RH	1000 Hour OK
	Low Temp. Storage	-40°C	1000 Hour OK
	Temp Cycle	-55°C~125°C	1000 cycle OK
Anti Chemical	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

Derivative Products

Product	Weldable Metallic Tag	Screw Tag
Figure		
Feature	Hard, Durability, Weldable	Small, Attachable to Metal Products
Size	24mm × 22mm × 5mm	M8-5.5mm
Read Range	~50cm	Proximity
Application	Plant, Machine, Vehicle, etc.	Metallic Parts, Automobile, etc.

Product and Sale

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