



**COST-EFFECTIVE, LOW FREQUENCY DISC-SHAPED RFID TAGS FOR INDOOR APPLICATIONS**

- **Cost-effective** - low cost discs deliver excellent size to performance ratios
- **Versatile** - screw or glue mount securely to glass or plastic

HID Global World Tag™ passive contactless transponders deliver reliable, cost-effective radio frequency identification (RFID) tag performance for light-duty, indoor applications.

World Tag devices are made of durable polycarbonate, protecting the electronics within. Each tag withstands manufacturing and processing temperatures of 212° F (100° C) or higher, enabling encapsulation of World Tag transponders in a broad range of end-use housings or use as is.

Low frequency (LF) World Tag discs perform best affixed to wood, glass or plastic surfaces. They offer reliable, cost-effective tagging for near-proximity

reader applications, with available data storage from a 64-bit user ID, up to 2048-bit read-write capability.

World Tag RFID tags are available in 20 mm, 30 mm and 50 mm diameters to match read range requirements, and are available with a variety of integrated chips.

For additional options, the heavy-duty HID IN Tag™, Epoxy Tag and Poly Tag families offer low frequency, high frequency and UHF configurations.

**TECHNOLOGY HIGHLIGHTS:**

- Operating frequency 125 kHz
- Peak temperature up to 266° F (130° C)
- Up to 2048 EEPROM
- Polycarbonate housing
- Mount-ready, via glue or screw hole



# World Tag™



HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

## SPECIFICATIONS

World Tag					
Hitag S					
	20 mm	30 mm		50 mm	
<b>Base Model Number</b>	623102	623103	624103	623104	624104
<b>ELECTRONIC</b>					
<b>Operating Frequency</b>	125 kHz				
<b>Chip Type</b>	HITAG S				
<b>Memory</b>	256 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM
<b>Anti-collision</b>	Yes				
<b>Reading Distance</b>	Dependent upon reader, environment and application				
<b>PHYSICAL</b>					
<b>Dimensions</b>	Ø 0.79 x 0.08 in (Ø 20 x 2.1 mm)	Ø 1.18 x 0.08 in (Ø 30 x 2.1 mm)		Ø 1.97 x 0.08 in (Ø 50 x 2.1 mm)	
<b>Mounting Method</b>	Glue, embed	Screw			
<b>Fixation Hole Size</b>		Ø 0.13 in (3.2 mm)		Ø 0.17 in (4.2 mm)	
<b>Affixes To</b>	Glass, plastic, wood				
<b>Housing Material</b>	PC				
<b>Color</b>	Black				
<b>Weight</b>	0.03 oz (0.8 g)	0.07 oz (1.9 g)		0.18 oz (5.2 g)	
<b>MECHANICAL RESISTANCE</b>					
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]				
<b>Shock</b>	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]				
<b>Axial / Radial Force</b>	500 N / 300 N, 10 sec			500 N / 100 N, 10 sec	
<b>THERMAL</b>					
<b>Storage</b>	-40° to +194° F (-40° to +90° C), 1000 h				
<b>Operating</b>	-13° to +158° F (-25° to +70° C)				
<b>Shock/Fatigue</b>	-13° to +158° F (-25° to +70° C), 50 x 10 min with 30 sec transition				
<b>Peak</b>	266° F (130° C), 100 h			212° F (100° C), 100 h	
<b>OTHER</b>					
<b>Box Size</b>	2000 pcs	1000 pcs		250 pcs	
<b>Options</b>	Custom printed logo				
<b>Warranty</b>	2 Years				

## APPLICATION AREAS:

- **Asset tracking and logistics**
  - Boxes, containers
  - Furniture
  - Equipment
- **OEM service and maintenance**
  - Repair schedules
  - Ownership logs

## SPECIFICATIONS

	World Tag					
	Q5		Titan	Unique		
	20 mm	30 mm	30 mm	20 mm	30 mm	50 mm
<b>Base Model Number</b>	612102	612103	602103	601102	601103	601104
<b>ELECTRONIC</b>						
<b>Operating Frequency</b>	125 kHz					
<b>Chip Type</b>	Q5		Titan	Unique		
<b>Memory</b>	264 bit EEPROM		1024 bit EEPROM	64 bit read-only		
<b>Anti-collision</b>						
<b>Reading Distance</b>	Dependent upon reader, environment and application					
<b>PHYSICAL</b>						
<b>Dimensions</b>	Ø 0.79 x 0.08 in (Ø 20 x 2.1 mm)	Ø 1.18 x 0.08 in (Ø 30 x 2.1 mm)	Ø 1.18 x 0.08 in (Ø 30 x 2.1 mm)	Ø 0.79 x 0.08 in (Ø 20 x 2.1 mm)	Ø 1.18 x 0.08 in (Ø 30 x 2.1 mm)	Ø 1.97 x 0.08 in (Ø 50 x 2.1 mm)
<b>Mounting Method</b>	Glue, embed	Screw	Screw	Glue, embed	Screw	
<b>Fixation Hole Size</b>		Ø 0.13 in (3.2 mm)	Ø 0.13 in (3.2 mm)		Ø 0.13 in (3.2 mm)	Ø 0.17 in (4.2 mm)
<b>Affixes To</b>	Glass, plastic, wood					
<b>Housing Material</b>	PC					
<b>Color</b>	Black					
<b>Weight</b>	0.03 oz (0.8 g)	0.07 oz (1.9 g)	0.07 oz (1.9 g)	0.03 oz (0.8 g)	0.07 oz (1.9 g)	0.18 oz (5.2 g)
<b>MECHANICAL RESISTANCE</b>						
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]					
<b>Shock</b>	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]					
<b>Axial / Radial Force</b>	500 N / 300 N, 10 sec		500 N / 300 N, 10 sec	500 N / 300 N, 10 sec		500 N / 100 N, 10 sec
<b>THERMAL</b>						
<b>Storage</b>	-40° to +194° F (-40° to +90° C), 1000 h					
<b>Operating</b>	-13° to +158° F (-25° to +70° C)					
<b>Shock/Fatigue</b>	-13° to +158° F (-25° to +70° C), 50 x 10 min with 30 sec transition					
<b>Peak</b>	266° F (130° C), 100 h		266° F (130° C), 100 h	266° F (130° C), 100 h		212° F (100° C), 100 h
<b>OTHER</b>						
<b>Box Size</b>	2000 pcs	1000 pcs	1000 pcs	2000 pcs	1000 pcs	250 pcs
<b>Options</b>	Custom printed logo					
<b>Warranty</b>	2 Years					



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