

# World Tag™

Cost-effective, low frequency disc-shaped RFID tags for indoor applications



HID 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.



## KEY BENEFITS:

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

## TECHNOLOGY HIGHLIGHTS:

- Operating frequency 125 kHz
- Peak temperature up to 212° F (100° C)
- Up to 256 bit
- 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.

## APPLICATION AREAS:

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

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

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

For further information, contact [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +353 91 506 900

Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108

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