



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 212° F (100° C)
- Up to 2048 EEPROM
- Polycarbonate housing
- Mount-ready, via glue or screw hole



World Tag™

SPECIFICATIONS



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

World Tag				
Hitag S				
		 		
	20 mm	30 mm	50 mm	
Base Model Number	623102	623103	624103	624104
ELECTRONIC				
Operating Frequency	125 kHz			
Chip Type	HITAG S			
Memory	256 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	2048 bit EEPROM
Anti-collision	Yes			
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 1.97 x 0.08 in (Ø 50 x 2.1 mm)	
Mounting Method	Glue, embed	Screw		
Fixation Hole Size		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)	0.18 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 / 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	250 pcs	
Options	Custom printed logo			
Warranty	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
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)
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Warranty	2 Years					



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