



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™ and Poly Tag families offer low frequency, high frequency and UHF configurations. For other lighter-duty applications, consider HID Epoxy Disc transponders. If your application demands extreme heat exposure, Volcano Tag™ discs withstand peak temperatures up to 392° F (200° C).

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	
Base Model Number	623102	624102	623103	624103	623104	624104
ELECTRONIC						
Operating Frequency	125 kHz					
Chip Type	Hitag S					
Memory	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	256 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	266° F (130° C), 100 h				212° F (100° C), 100 h	
OTHER						
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	50 mm	20 mm	30 mm	50 mm	20 mm	30 mm	50 mm
Base Model Number	612102	612103	612104	602102	602103	602104	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 1.97 x 0.08 in (Ø 50 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)	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		Glue, embed	Screw		Glue, embed	Screw	
Fixation Hole Size		Ø 0.13 in (3.2 mm)	Ø 0.17 in (4.2 mm)		Ø 0.13 in (3.2 mm)	Ø 0.17 in (4.2 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)	0.18 oz (5.2 g)	0.03 oz (0.8 g)	0.07 oz (1.9 g)	0.18 oz (5.2 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 / 100 N, 10 sec	500 N / 300 N, 10 sec		500 N / 100 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	266° F (130° C), 100 h		212° F (100° C), 100 h	266° F (130° C), 100 h		212° F (100° C), 100 h	266° F (130° C), 100 h		212° F (100° C), 100 h
OTHER									
Options	Custom printed logo								
Warranty	2 Years								

North America: +1 949 732 2000 • Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +44 1440 714 850
Asia Pacific: +852 3160 9800 • Latin America: +52 55 5081 1650



ASSA ABLOY

An ASSA ABLOY Group brand

© 2012 HID Global. All rights reserved. HID, the HID logo are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.

2012-02-10-hid-rfid-world-tag-family-ds-en