HID®

World Tag™

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

	World Tag				
	Hitag S				
	20 mm	30 mm		50 mm	
Base Model Number	623102	623103	624103	623104	624104
ELECTRONIC					
Operating Frequency	125 kHz				
Chip Type	HITAG S				
Memory	256 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	212° F (100° C), 100 h				
OTHER					
Box Size	2000 pcs	1000 pcs		250 pcs	
Options	Custom printed logo				
Warranty	2 Years				

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

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)
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					

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