



### 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   |                 |
| <b>Base Model Number</b>     | 623102  | 623103   | 624103  | 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   | 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<br>(Ø 20 x 2.1 mm)   | Ø 1.18 x 0.08 in<br>(Ø 30 x 2.1 mm)  | Ø 1.97 x 0.08 in<br>(Ø 50 x 2.1 mm)   |                 |
| <b>Mounting Method</b>       | Glue, embed   | Screw  |   |                 |
| <b>Fixation Hole Size</b>    |   | Ø 0.13 in<br>(3.2 mm)  | Ø 0.17 in<br>(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<br>(0.8 g)  | 0.07 oz<br>(1.9 g)   | 0.18 oz<br>(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,<br>10 sec  |  | 500 N / 100 N,<br>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>                  | 212° F (100° C),<br>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  |
| ELECTRONIC                  |   |   |   |  |   |   |
| <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                                |   |   |  |   |   |
| PHYSICAL                    |   |   |   |  |   |   |
| <b>Dimensions</b>           | Ø 0.79 x 0.08 in<br>(Ø 20 x 2.1 mm)   | Ø 1.18 x 0.08 in<br>(Ø 30 x 2.1 mm)   | Ø 1.18 x 0.08 in<br>(Ø 30 x 2.1 mm)   | Ø 0.79 x 0.08 in<br>(Ø 20 x 2.1 mm)  | Ø 1.18 x 0.08 in<br>(Ø 30 x 2.1 mm)   | Ø 1.97 x 0.08 in<br>(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<br>(3.2 mm)   | Ø 0.13 in<br>(3.2 mm)   |  | Ø 0.13 in<br>(3.2 mm)   | Ø 0.17 in<br>(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<br>(0.8 g)  | 0.07 oz<br>(1.9 g)  | 0.07 oz<br>(1.9 g)  | 0.03 oz<br>(0.8 g)   | 0.07 oz<br>(1.9 g)  | 0.18 oz<br>(5.2 g)  |
| MECHANICAL RESISTANCE       |   |   |   |  |   |   |
| <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,<br>10 sec  |   | 500 N / 300 N,<br>10 sec  |  | 500 N / 300 N,<br>10 sec  |   |
| 500 N / 100 N, 10 sec       |   |   |   |  |   |   |
| THERMAL                     |   |   |   |  |   |   |
| <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>                 | 212° F (100° C), 100 h  |   |   |  |   |   |
| OTHER                       |   |   |   |  |   |   |
| <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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