



Poly Tag<sup>®</sup>



**LOW AND HIGH FREQUENCY DISC-SHAPED RFID TAGS WITH EXTREME IMPACT RESISTANCE, READY FOR OUTDOOR USE**

- **Durable housing** – withstands shock, impact and vibration; waterproof; resistant to chemical exposure
- **Heat tolerant** – during storage, industrial processing and daily use
- **Versatile** – mounts securely to plastic or wood with screws
- **Cost-effective** – excellent size to performance ratios

Poly Tag passive contactless radio frequency identification (RFID) transponders deliver reliable performance in a cost-effective housing that stands up to rugged conditions. Each heavy-duty disc is waterproof, highly chemical and shock resistant, and withstands peak temperatures up to 266° F (130° C).

Poly Tag devices are housed in field-proven, high-impact PA6. This nylon thermoplastic shell absorbs the daily bumps and jolts of industrial environments, while protecting the electronics within. Exceptional toughness, chemical resistance and abrasion resistance assure consistent communications with RFID readers, and reliable performance in automation and manufacturing applications.

Low frequency (LF) Poly Tag discs perform best affixed to plastic or wood 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.

The high frequency (HF) Poly Tag disc offers anti-collision technology for faster data processing, up to 1024-bit EEPROM, and an improved read range over LF discs.

For additional disc-tag options, the HID IN Tag™ family also includes heavy-duty tags, in low frequency, high frequency and UHF configurations. For lighter-duty applications, consider HID Epoxy Disc or World Tag™ transponders. If your application demands extreme heat exposure, Volcano Tag™ discs withstand peak temperatures up to 392° F (200° C).

**TECHNOLOGY HIGHLIGHTS:**

- Choose from 125 kHz or 13.56 MHz
- Peak temperature exposure to 266° F (130° C)
- High-impact PA6 housings
- Waterproof
- Mount-ready, via central screw hole

### APPLICATION AREAS:

- **Automation and manufacturing**
  - Processing boxes
  - Production equipment
- **Asset tracking and logistics**
  - Wooden outdoor equipment e.g. furniture or playground items
  - Plastic bins



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

## SPECIFICATIONS

	Poly Tag®			
<b>Base Model Number</b>	601131	623131	624131	629131
<b>ELECTRONIC</b>				
<b>Operating Frequency</b>	125 kHz			13.56 MHz
<b>Chip Type</b>	Unique	Hitag S		I-Code SLix
<b>Memory</b>	64 bit read-only	256 bit EEPROM	2048 bit EEPROM	1024 bit EEPROM (896 bit user memory)
<b>Anti-Collision</b>	Yes			
<b>Reading Distance</b>	Dependent upon reader, environment and application			
<b>PHYSICAL</b>				
<b>Dimensions</b>	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)			
<b>Mounting Method</b>	Screw-on			
<b>Fixation Hole Size</b>	Ø 0.20 in (5.4 mm)			
<b>Affixes To</b>	Plastic, wood			
<b>Housing Material</b>	PA6 - high impact			
<b>Color</b>	black			
<b>Weight</b>	2.7 oz (7.8 g)			
<b>CHEMICAL AND MECHANICAL</b>				
<b>Water</b>	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h			
<b>Withstands Exposure To</b>	Mineral oil, petroleum, salt water, vegetable oil; 90% humidity at 194° F (90° C)			
<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>	800 N / 500 N, 10 sec			
<b>THERMAL</b>				
<b>Storage</b>	-40° to +194° F (-40° to +90° C), 1000 h			
<b>Operating</b>	-40° to +185° F (-40° to +85° C)	-13° to +185° F (-25° to +85° C)		
<b>Shock/Fatigue</b>	-22° to +194° F (-30° to +90° C), 50 x 10 min with 30 sec transition			
<b>Peak</b>	212° F (100° C), 100 h	266° F (130° C), 100 h		
<b>OTHER</b>				
<b>Standards</b>				ISO 15693, ISO 18000-3
<b>Warranty</b>	2 Years			

North America: +1 949 732 2000  
 Toll Free: 1 800 237 7769  
 Europe, Middle East, Africa: +41 21 908 01 00  
 Asia Pacific: +852 3160 9800  
 Latin America: +52 55 5081 1650

[hidglobal.com](http://hidglobal.com)

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