

Poly Tag®



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 metal, 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 on any flat surface. 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. Chip options for NFC applications are available.

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.

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SPECIFICATIONS

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