



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 plastic or wood with screws
- **Cost-effective** – excellent size to performance ratios

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

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 2560-bit user memory, and an improved read range over LF discs. Chip options for NFC or Trusted Tag™ 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).

APPLICATION AREAS:

- **Automation and manufacturing**
 - Processing boxes
 - Production equipment
- **Asset tracking and logistics**
 - Outdoor equipment e.g. furniture, playground items, or walls
 - 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®					
Base Model Number	601131	623131	624131	629131	629131-012
ELECTRONIC					
Operating Frequency	125 kHz			13.56 MHz	
Chip Type	Unique	HITAG S		ICODE SLIX	ICODE SLIX2
Memory	64 bit read-only	256 bit EEPROM	2048 bit EEPROM	896 bit user memory	2560 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, glass, metal				
Housing Material	PA6 - high impact				
Color	black				
Weight	2.7 oz (7.8 g)				
CHEMICAL AND MECHANICAL					
Water	IP69K, IP68, 68° F (20° C), 3.3 ft (1 m) x 24 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				
Impact	IEC 62262-1K07				
Drop Test	100 x 5.9 ft (1.8 m)				
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, NFC Tag type 5 (optional)
Options	Alternative chips e.g. MIFARE® Classic, DESFire®, NTAG 213 or Trusted Tag™, custom embossed logo, laser engraved serial number (see image above)				
Box Size	800 pcs.				
Warranty	2 Years				



hidglobal.com

North America: +1 512 776 9000
 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

© 2017 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design, World Tag, Volcano Tag, IN Tag and PolyTag are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners. 2017-09-23-hid-rfid-il-poly-tag-ds-en PLT-00283

An ASSA ABLOY Group brand



ASSA ABLOY