HID®

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 / NFC
- Peak temperature exposure to 266° F (130° C)
- High-impact PA6 housings
- Waterproof
- Mount-ready, via central screw hole
- Secure HID Trusted Tag® option prevents tags from being copied

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, higher user memory, and an improved read range over LF discs. Chip options for NFC or HID Trusted Tag® are available to implement secure "proof of presence" applications like guard tours or maintenance checks using standard NFC phones as readers.

For additional disc-tag options, the HID IN Tag™ family also includes heavy-duty tags, in low frequency, high frequency and UHF configurations. For other applications, consider ultra-thin HID Epoxy Disc or indoor World Tag™ transponders.

APPLICATION AREAS:

- **Automation and manufacturing**
  - Processing boxes
  - Production equipment
  - Maintenance and Inspection

- **Asset tracking and logistics**
  - Outdoor equipment e.g. furniture, playground items, or walls
  - Plastic bins
  - Proof of Presence (e.g. guard tour)

SPECIFICATIONS

	Poly Tag®						
Base Model Number	601131	623131	624131	629131	629131-012	6H5131-101	6H9131-010
ELECTRONIC							
Operating Frequency	125 kHz			13.56 MHz			
Chip Type	Unique	HITAG S		ICODE SLIX	ICODE SLIX2	HID Trusted Tag	NTAG 216
Memory	64 bit read-only	256 bit EEPROM	2048 bit EEPROM	896 bit user memory	2560 bit user memory	8 KB	888 Bytes user memory
Anti-Collision		Yes					Yes
Reading Distance	Dependent upon reader, environment and application					Proximity (NFC Tap)	
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-IK07						
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)					-13 °to +158° F (-25° to +70° 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)		ISO/IEC 14443A, NFC Forum Tag Type 4	ISO/IEC 14443A, NFC Forum Tag Type 2
Options	Alternative chips e.g. MIFARE® Classic, MIFARE® DESFire®, custom embossed logo, laser engraved serial number						
Box Size	800 pcs.						
Warranty	2 Years						

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