HID®

Actual Size

Brick Tag Nova

MINIATURE, LOW-FREQUENCY TAG FOR INVENTORY TRACKING AND THEFT PREVENTION APPLICATIONS

- **Diminutive size** – embeds in space-restricted applications, such as key fobs for automobile immobilizers
- **Exceptionally durable** – dust tight; water, chemical and acid resistant; withstands temperature extremes
- **Data read-write ease** – no line-of-sight required

TECHNOLOGY HIGHLIGHTS:
- Endures peak temperature to +482° F (250° C)
- Waterproof; meets maximum IEC standards for dust-tightness and immersion resistance
- High resistance to chemicals, shock and vibration
- 160 bit read-write user memory
- Up to 11 mm read range
- Other chips available

The Brick Tag Nova passive contactless transponder communicates with readers via radio frequency identification (RFID) technology. It is suited for any RFID application that requires a compact form factor that delivers sustainable performance under extreme conditions.

The HID Global Brick Tag Nova transponder embeds in tiny spaces. Its footprint is just 0.11 in^2 (74 mm^2), with a thickness of only 0.12 in (3.0 mm). The 160-bit read/write memory is easily programmed to suit custom applications.

Widely used in key fobs for automobile immobilizer theft prevention systems, the Brick Tag Nova device is also ideal for inventory and tracking systems for tools or cables. It easily integrates into any application requiring discreet placement of a small, featherweight transponder.

Each Brick Tag Nova unit withstands extreme temperatures, and provides high water, chemical and shock resistance.

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APPLICATION AREAS:

- **Asset tracking and logistics**
  - Cable identification
  - Tool inventory and management
  - Key fobs for automobile immobilization systems

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

SPECIFICATIONS

	Brick Tag Nova
Base Model Number	933504
ELECTRONIC	
Operating Frequency	130 kHz
Chip Type	Nova
Memory	160 bit EEPROM
Reading Distance	Up to 11 mm
PHYSICAL	
Dimensions	0.48 × 0.24 × 0.12 in (12.1 × 6.1 ×3.0 mm)
Mounting Method	Enclose
Housing Material	Epoxy overmolded
Color	Black
Weight	0.02 oz (0.45 g)
CHEMICAL AND MECHANICAL RESISTANCE	
Water IP68	IP68, 68° F (20° C), 1 m × 24 h
Withstands Exposure To	Bleach, caustic soda, formic acid, gasoline, HCL, oil, salt water
Environmental Test Conditions	68° F (20° C), 100 h
Axial / Radial Force	500 N, 10 sec
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]
Drop Test	100 × 1 m
Pressure	100 bar, 5 min
THERMAL	
Storage	-40° to +248° F (-40° to +120° C), 1 × 1000 h
Operating	-40° to +194° F (-40° to +90° C)
Shock/Fatigue	-40° to +194° F (-40° to +90° C), 200 × 20 min with 30 sec transistion
Peak Temperature	482° F (250° C), 1 min
OTHER	
Options	Alternative LF or HF integrated chip
Warranty	2 years

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