

**MINIATURE TAGS FOR INVENTORY TRACKING AND THEFT PREVENTION APPLICATIONS**

- **Small footprints** – Embeds in space-restricted applications, such as key fobs for automobile immobilizers.
- **Exceptional durability** – Withstands physical stress, are dust tight, and water, chemical and acid resistant.
- **Versatility** – Available in standard LF and HF formats, or customized to fit application requirements.

HID Global Brick Tag passive contactless transponders are suited for RFID applications that require a compact form factor to deliver sustainable performance. Brick Tag units are available in both low frequency (LF) and high frequency (HF) RFID configurations.

Widely used in key fobs for automobile immobilizer theft prevention systems, Brick Tag devices are also ideal for inventory and tracking systems for tools or cables. They easily integrate into any application requiring discreet placement of a small, featherweight transponder.

The Brick Tag Vigo™ transponder delivers HF performance in a miniature footprint,

with a thickness of 0.10 in (2.6 mm), placing it among the smallest HF tags available. These units are assembled using patented direct bonding Vigo technology that enables HID Global to produce tags in thinner, smaller formats without compromising performance. The tags provide a full 64 bit UID and 1024 bit user memory. Epoxy housings make the tag resistant to mechanical stress.

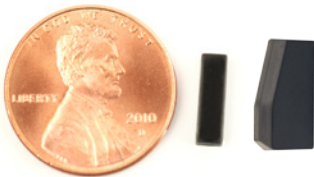
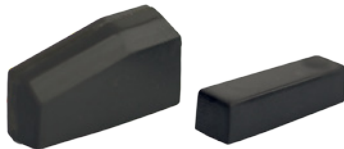
The LF Brick Tag Nova transponder has a thickness of only 0.12 in (3.0 mm). The 160-bit read-write memory is easily programmed to suit custom applications. Each Brick Tag Nova unit withstands extreme temperatures, and provides high water, chemical and shock resistance.

**TECHNOLOGY HIGHLIGHTS:**

- Resistant to chemicals, shock and vibration
- Tiny footprints
- Brick Tag Vigo
  - 13.56 MHz
  - Anti-collision, multi-read capable
  - 1024 bit read-write user memory
  - ISO 15693, 18000-3
- Brick Tag Nova
  - 125 kHz
  - 160 bit read-write user memory
  - IEC IP68
  - Temperature resistant to 482° F (250° C)

**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	Vigo
<b>Base Model Number</b>	933504	6A9904
<b>ELECTRONIC</b>		
<b>Operating Frequency</b>	130 kHz	13.56 MHz
<b>Chip Type</b>	Nova	Vigo
<b>Memory</b>	160 bit EEPROM	64 bit UID, 1024 bit EEPROM
<b>Anti-Collision</b>		Yes
<b>Reading Distance</b>	Up to 11 mm	Proximity
<b>PHYSICAL</b>		
<b>Dimensions</b>	0.48 × 0.24 × 0.12 in (12.1 × 6.1 × 3.0 mm)	0.4 × 0.12 × 0.10 in (10.2 × 3.0 × 2.6 mm)
<b>Mounting Method</b>	Enclose	
<b>Housing Material</b>	Epoxy overmolded	
<b>Color</b>	Black	
<b>Weight</b>	0.02 oz (0.45 g)	0.005 oz (0.15 g)
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>		
<b>Water</b>	IP68, 68° F (20° C), 1 m × 24 h	
<b>Withstands Exposure To</b>	Bleach, caustic soda, formic acid, gasoline, HCL, oil, salt water	
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h	
<b>Axial / Radial Force</b>	500 N, 10 sec	
<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>Drop Test</b>	100 × 1 m	
<b>Pressure</b>	100 bar, 5 min	
<b>THERMAL</b>		
<b>Storage</b>	-40° to +248° F (-40° to +120° C), 1 x 1000h	-13° to +158° F (-25° to +70° C), 1 × 1000 h
<b>Operating</b>	-40° to +194° F (-40° to +90° C)	
<b>Shock/Fatigue</b>	-40° to +194° F (-40° to +90° C), 200 × 20 min with 30 sec transition	-13° to +158° F (-25° to +70° C), 200 × 5 min with 30 sec transition
<b>Peak</b>	482° F (250° C), 1 min	
<b>OTHER</b>		
<b>Standards</b>		ISO 15693, 18000-3
<b>Options</b>	Alternative LF or HF integrated chips	
<b>Quantity Per Box</b>	500 pcs.	4,000 pcs.
<b>Warranty</b>	2 Years	



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