

# Brick Tag

Miniature tags mount or embed discreetly to tools, equipment, medical instruments and more.



HID Global Brick Tag passive contactless transponders easily integrate into RFID applications requiring discreet placement of small, featherweight tags that deliver sustainable performance.

Brick Tag Ceramic units are optimized for placement on metal assets, such as tools, weaponry and surgical instrumentation. The hard shells encasing these tiny UHF transponders shield them from exposure to autoclave sterilization and demanding industrial environments. Their memory is readable and writable from up to 3.3 ft (1 m).

The Brick Tag ABS Vigo™ transponder is among the smallest HF tags available. These units are assembled using patented DBond™ 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, optionally usable for NFC applications.

The epoxy Brick Tag Nova and Brick Tag HDX low frequency transponders are only 0.12 in (3.0 mm) thick. The Nova tag's 160-bit read-write memory is easily programmed to suit custom applications. The HDX version is read-only, and meets ISO 11784 and ISO 11785 standards. Both withstand extreme temperatures, and provide high water, chemical and shock resistance. Widely used in key fobs for automobile immobilizer theft prevention systems, these devices are also ideal for tool or cable inventory and tracking systems.



## KEY BENEFITS


- **Small footprints** – Embeddable in space-restricted applications.
- **Exceptional durability** – Withstand physical stress, are dust tight, and resistant to water, chemicals, acids and temperature extremes.
- **Versatility** – Available in LF, HF and UHF; may be customized to fit application requirements.

## TECHNOLOGY HIGHLIGHTS:

- Resistant to chemicals, shock and vibration
- Tiny footprints
- Heat resistant
- Waterproof
- LF, HF/NFC, UHF/RAIN options

## APPLICATION AREAS:

- **Asset tracking and logistics**
  - Cable identification
  - Tool or weapon inventory and management
  - Key fobs for automobile immobilization systems
- **Medical and health**
  - Surgical instrumentation tracking
  - Medical equipment status and utilization

	Brick Tag							
	Epoxy		ABS	Ceramic				
	Nova	HDX	Vigo	60	75	150	600	60
								
<b>Base Model Number</b>	933504	9B7513	6A9904	698936 (EU) 698937 (US)	698930 (EU) 698931 (US)	6H2932 (EU) 6H2933 (US)	698934 (EU) 698935 (US)	6H2936 (EU) 6H2937 (US)
<b>ELECTRONIC</b>								
<b>Operating Frequency</b>	130 kHz	134.2 kHz	13.56 MHz	865-868 MHz (ETSI) / 902-928 MHz (FCC)				
<b>Chip Type</b>	Nova	HDX	Vigo	Higgs 3		Monza R6-P	Higgs 3	Monza R6-P
<b>Memory</b>	160 bit EEPROM	128 bit read-only	64 bit UID, 1024 bit EEPROM	512 bit read/write		28/96 bit EPC,32/64 bit UM	512 bit read/ write	28/96 bit EPC, 32/64 bit UM
<b>Anti-Collision</b>			Yes					
<b>Reading Distance</b>	Proximity			4.9 ft (1.5 m)	6.5 ft (2 m)	10 ft (3 m)	22.9 ft (7 m)	6.5 ft (2 m)
<b>PHYSICAL</b>								
<b>Dimensions</b>	0.5 x 0.2 x 0.1 in (12 x 6 x 3 mm)		0.4 x 0.1 x 0.1 in (10 x 3 x 2.5 mm)	0.4 x 0.1 x 0.1 in (10 x 2.5 x 2.5 mm)	0.2 x 0.2 x 0.1 in (5 x 5 x 3 mm)	0.4 x 0.2 x 0.1 in (10 x 5 x 3 mm)	0.9 x 0.4 x 0.1 in (23 x 9 x 3 mm)	0.4 x 0.1 x 0.1 in (10 x 2.6 x 2.6 mm)
<b>Mounting Method</b>	Enclose			Adhesive or enclosure				
<b>Affixes to</b>	Any material			Metal surfaces				
<b>Housing Material</b>	Epoxy overmolded		ABS coffin potted w/ epoxy	Ceramic painted				
<b>Color</b>	Black			Black				
<b>Weight</b>	0.02 oz (0.45 g)		0.005 oz (0.15 g)	0.01 oz (0.4 g)		0.03 oz (0.9 g)	0.11 oz (3.2 g)	0.01 oz (0.4 g)
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>								
<b>Water</b>	IP68, 68° F (20° C), 1 m x 24 h			IP67, 1 m x 1 h				
<b>Withstands Exposure To</b>	Bleach, caustic soda, formic acid, gasoline, HCL, oil, salt water			Autoclave sterilization; bleach, cleaning solutions, oil				
<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 x 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 1000 h		-13° to +158° F (-25° to +70° C), 1 x 1000 h	-40° to +185° F (-40° to +85° C)				
<b>Operating</b>	-40° to +194° F (-40° to +90° C)		-13° to +158° F (-25° to +70° C)	-40° to +185° F (-40° to +85° C)				
<b>Shock/Fatigue</b>	-40° to +194° F (-40° to +90° C), 200 x 20 min with 30 sec transition		-13° to +158° F (-25° to +70° C), 200 x 5 min with 30 sec transition	-40° to +185° F (-40° to +85° C)				
<b>Peak Temperature</b>	284° F (140° C), 100 h			302° F (150° C), 100 h				
<b>OTHER</b>								
<b>Standards</b>		ISO 11784, 11785	ISO 15693, 18000-3, NFC Tag Type 5 when NDEF formatted	EPC C1G2, ISO 18000-6C, RAIN				
<b>Options</b>	Alternative LF or HF integrated chips			Self-adhesive sticker				
<b>Quantity Per Box</b>	500 pcs.		4,000 pcs.	4,000 pcs	10,000 pcs	4,000 pcs	2,000 pcs	4,000 pcs
<b>Warranty</b>	2 years							

