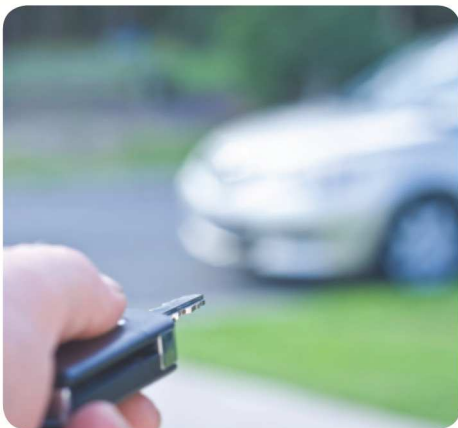


Brick Tag

MINIATURE TAGS MOUNT OR EMBED DISCREETLY TO TOOLS, EQUIPMENT, MEDICAL INSTRUMENTS AND MORE

- **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

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.

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





SPECIFICATIONS

| | Brick Tag | | | | | | | |
|---|--|-------------------|---|--|--------------------------------------|---------------------------------------|---------------------------------------|---|
| | Epoxy | | ABS | Ceramic | | | | |
| | Nova | HDX | Vigo | 60 | 75 | 150 | 600 | 60 |
| Base Model Number | 933504 | 9B7513 | 6A9904 | 698936 (EU) 698937 (US) | 698930 (EU) 698931 (US) | 698932 (EU) 698933 (US) | 698934 (EU) 698935 (US) | 6H2936 (EU) 6H2937 (US) |
| ELECTRONIC | | | | | | | | |
| Operating Frequency | 130 kHz | 134.2 kHz | 13.56 MHz | 869 MHz (EU) / 915 MHz (US) | | | | |
| Chip Type | Nova | HDX | Vigo | Higgs 3 | | | | Monza R6-P |
| Memory | 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 |
| Anti-Collision | | | | Yes | | | | |
| Reading Distance | Proximity | | | 3.3 ft (1.0 m) | | | | |
| PHYSICAL | | | | | | | | |
| Dimensions | 0.5 × 0.2 × 0.1 in (12 × 6 × 3 mm) | | 0.4 × 0.1 × 0.1 in (10 × 3 × 2.5 mm) | 0.4 × 0.1 × 0.1 in (10 × 2.5 × 2.5 mm) | 0.2 × 0.2 × 0.1 in (5 × 5 × 3 mm) | 0.4 × 0.2 × 0.1 in (10 × 5 × 3 mm) | 0.9 × 0.4 × 0.1 in (23 × 9 × 3 mm) | 0.4 × 0.1 × 0.1 in (10 × 2.6 × 2.6 mm) |
| Mounting Method | Enclose | | | Adhesive or enclosure | | | | |
| Affixes to | Any material | | | Metal surfaces | | | | |
| Housing Material | Epoxy overmolded | | ABS coffin potted w/ epoxy | Ceramic painted | | | | |
| Color | Black | | | Black | | | | |
| Weight | 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) |
| CHEMICAL AND MECHANICAL RESISTANCE | | | | | | | | |
| Water | IP68, 68° F (20° C), 1 m × 24 h | | | IP67, 1 m × 1 h | | | | |
| Withstands Exposure To | Bleach, caustic soda, formic acid, gasoline, HCL, oil, salt water | | | Autoclave sterilization; bleach, cleaning solutions, oil | | | | |
| 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 | | -13° to +158° F (-25° to +70° C), 1 × 1000 h | -40° to +185° F (-40° to +85° C) | | | | |
| Operating | -40° to +194° F (-40° to +90° C) | | -13° to +158° F (-25° to +70° C) | -40° to +185° F (-40° to +85° C) | | | | |
| Shock/Fatigue | -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 | -40° to +185° F (-40° to +85° C) | | | | |
| Peak Temperature | 284° F (140° C), 100 h | | | 302° F (150° C), 100 h | | | | |
| OTHER | | | | | | | | |
| Standards | ISO 11784, 11785 | | ISO 15693, 18000-3, NFC Tag Type 5 when NDEF formatted | EPC C1G2, ISO 18000-6C, RAIN | | | | |
| Options | Alternative LF or HF integrated chips | | | Self-adhesive sticker | | | | |
| Quantity Per Box | 500 pcs. | | 4,000 pcs. | 4,000 pcs | 10,000 pcs | 4,000 pcs | 2,000 pcs | 4,000 pcs |
| Warranty | 2 years | | | | | | | |

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1 (888) 238-1155 Inside USA • 1 (205) 383-2244 Outside USA
info@atlasRFIDstore.com • www.atlasRFIDstore.com

