



## Model BT1225 Bolt Tag RFID Tag      Specifications & Data Sheet

The Model BT1225 offers a small shaft length yet maintains the durability and robust integrity expected from an RFID Bolt Tag. Read ranges are optimized for mounting in an environment of heavy metal concentration with either a ceramic or FR4 based Tag in the bolt head however as the bolt is metal, range will not diminish when screwed into a non-metal asset.

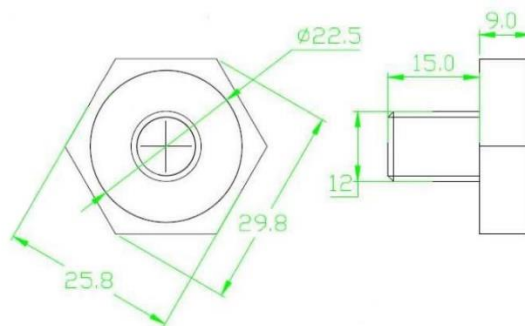


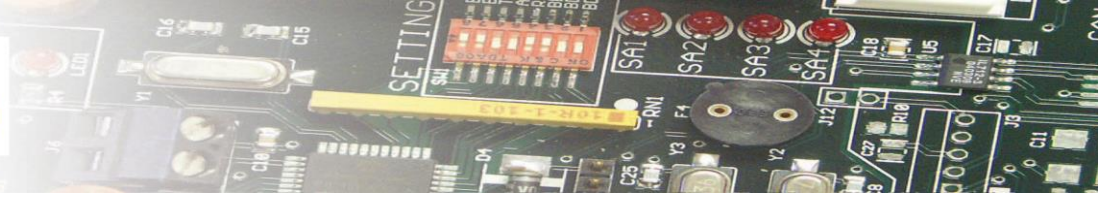
| Model Number | Part Number     | Description                 | Read Range  |
|--------------|-----------------|-----------------------------|---|
| BT1225       | 807-0006-BT1225 | Model BT1225 Metal Bolt Tag | A99H Antenna - 5'<br>A55C Antenna – 2.5'<br>A64C Antenna – 2' |

|                        |               |  |   |
|------------------------|---------------|--|---|
| <b>Mechanical:</b>     | Measurements: | Shaft 12mm dia. x 15mm length,<br>25mm head, M16 pitch | Shaft 0.50" dia. x 9/16, 1.0"<br>head M16 pitch |
|                        | Material:     | Steel  |   |
| <b>Certifications:</b> | Weight:       | 2.72 ounces  | 77 grams  |
|                        | RoHS III      | REACH  | CE  |
|                        | FCC Part 15   | ETSI   | Free of BBP, DEHP, DBP, DIBP                    |

|   |                       |                                    |                             |
|---|-----------------------|------------------------------------|-----------------------------|
| <b>Memory &amp; RF:</b><br><br>See list of memory chips page 2 this sheet | Memory Chip Dependent | 96, 128, 256, 512, 1k, 2k, 8k bits | 100k write cycles max       |
|   | Standard:             | EPC Class1 Gen2                    | ISO 18000-6C                |
|   | Frequency:            | 902 – 928 MHz (North America)      | 860 – 870 MHz (EU, Japan)   |
|   | Power:                | Passive, no Battery                | Powered by Reader RF Signal |

|                       |                     |                     |                 |
|-----------------------|---------------------|---------------------|-----------------|
| <b>Environmental:</b> | Storage Temp:       | -40°F to +248°F     | -40°C to +120°C |
|                       | Operating Temp:     | -40°F to +257°F     | -40°C to +125°C |
|                       | Life:               | 40 Years Shelf Life | 100k Writes     |
|                       | Ingress Protection: | IP68                |                 |





**Available UHF Memory Chips:**

|                        |                  |                  |                          |
|------------------------|------------------|------------------|--------------------------|
| <b>Alien</b>           | <b>TID (ROM)</b> | <b>UID (EPC)</b> | <b>User Memory</b>       |
| Higgs3                 | 64 bits          | 96 to 480 bits   | 512 bits                 |
| Higgs4                 | 64 bits          | 128 bits         | 128 bits                 |
| HiggsEC                | 48 bits          | 96-128 bits      | 128 bits                 |
| Higgs9                 | 48 bits          | 496 bits         | 688 bits                 |
| <b>EM</b>              | <b>TID (ROM)</b> | <b>UID (EPC)</b> | <b>User Memory</b>       |
| EM4123                 | 64 bits          | 0 bits           | 0 bits                   |
| EM4124                 | 64 bits          | 96 bits          | 0 bits                   |
| EM4126                 | 32 bits          | 208 bits         | 0 bits                   |
| EM4324                 | 64 bits          | 96 bits          | 720 bits                 |
| EM4325                 | 48 bits          | 352 bits         | 3072 bits                |
| EM4423 dual HF NFC/UHF | 96 bits          | 64-160 bits      | 0 bits                   |
| EM4425 dual HF NFC/UHF | 96 bits          | Up to 480 bits   | Up to 2048 bits less EPC |
| <b>Fujitsu (FRAM)</b>  | <b>TID (ROM)</b> | <b>UID (EPC)</b> | <b>User Memory</b>       |
| MB97R88110             | 208 bits         | 480 bits         | 61,400 bits              |
| MB97R88120/8130        | 208 bits         | 480 bits         | 61,400 bits              |
| MB97R8050              | 176 bits         | 160 bits         | 0 bits                   |
| <b>Impinj</b>          | <b>TID (ROM)</b> | <b>UID (EPC)</b> | <b>User Memory</b>       |
| M4D                    | 96 bits          | Up to 128 bits   | 32 bits                  |
| M4E                    | 96 bits          | Up to 496 bits   | 128 bits                 |
| M4QT                   | 96 bits          | Up to 128 bits   | 512 bits                 |
| M4i                    | 96 bits          | Up to 256 bits   | 480 bits                 |
| MX-8k                  | 96 bits          | Up to 128 bits   | 8,192 bits               |
| Monza R6P              | 96 bits          | Up to 128 bits   | Up to 64 bits            |
| Monza R6               | 96 bits          | 96 bits          | 0 bits                   |
| Monza R6A              | 96 bits          | 96 bits          | 0 bits                   |
| Monza R6B              | 96 bits          | Up to 128 bits   | 32 bits                  |
| Monza 5                | 96 bits          | 128 bits         | 32 bits                  |
| M730                   | 96 bits          | 128 bits         | 0 bits                   |
| M750                   | 96 bits          | 96 bits          | 32 bits                  |
| <b>NXP</b>             | <b>TID (ROM)</b> | <b>UID (EPC)</b> | <b>User Memory</b>       |
| UCODE 7                | 48 bits          | 128 bits         | 0 bits                   |
| UCODE 7m               | 48 bits          | 128 bits         | 32 bits                  |
| UCODE 7xm              | 48 bits          | 448 bits         | 1024 bits                |
| UCODE 7xm+             | 48 bits          | 448 bits         | 2048 bits                |
| UCODE 8                | 96 bits          | 128 bits         | 0 bits                   |
| UCODE 8m               | 96 bits          | 96 bits          | 32 bits                  |
| UCODE 9                | 96 bits          | 96 bits          | 0 bits                   |
| UCODE G2iL & G2iL+     | 64 bits          | 128 bits         | 0 bits                   |
| UCODE G2iM             | 96 bits          | 256 bits         | 512 bits                 |
| UCODE G2iM+            | 96 bits          | Up to 448 bits   | Up to 640 bits           |
| UCODE G2XM             | 64 bits          | 240 bits         | 512 bits                 |
| UCODE G2XL             | 64 bits          | 240 bits         | 0 bits                   |
| UCODE HSL              | 64 bits          | 0 bits           | 1680 bits                |

