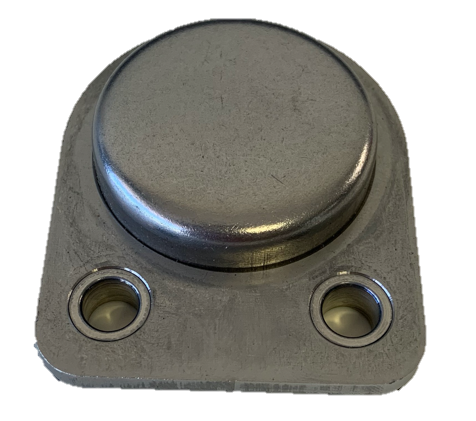
**Model W5944M-HT RFID Tag** **Specifications & Data Sheet**

The Model W5944M-HT high temperature Tag is capable of surviving the unprecedented temperature of 300°C (572°F), providing identification and tracking capabilities never-before available in rugged or hazardous use-areas.  This Tag can be mounted to any metallic surface by bolting, riveting, or welding and endure high pressure environmental conditions.





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| --- | --- | --- | --- |
| **Model Number** | **Part Number** | **Description** | **Read Range (on metal)** |
| W5944M-HT | 807-0016-W5944M-HT | Model W5944M-HT Weldable Metal Mount High Temp 300°C Tag | A99H Antenna – 9’  A55C Antenna – 7’  A64C Antenna – 6’ |

|  |  |  |  |
| --- | --- | --- | --- |
| **Mechanical:** | Measurements: | 59x44x15mm | 2.3”x1.7”x.59” |
|  | Material: | Stainless Steel Shell | Ceramic |
|  | Weight: | 39 grams | 1.4 Ounces |
| **Certifications:** | RoHS III | REACH | CE |
|  | FCC Part 15 | ETSI | Free of BBP, DEHP, DBP, DIBP |

|  |  |  |  |
| --- | --- | --- | --- |
| **Alien Higgs 3:** | TID – 64 bits | UID/EPC – 96-480 bits | 512 bits |
| **RF:** | 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 |
| Chip Options (page 2): | TID – 32 to 208 bits | EPC – 0 to 496 bits | User – 0 to 61,400 bits |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Environmental:** | |  | | --- | | Temp, Peak: | | Temp, Operating: | | Life: | | Ingress Protection: | | |  | | --- | | +350°C/+700°F @ 1 hour duration | | -85°F to +185°F | | 40 Year Shelf Life | | IP68 | | |  | | --- | |  | | -30°C to +85°C | | 100k Writes | |  | |

**Diagram

Description automatically generatedDiagram

Description automatically generated**

**Available UHF Memory Chips:**

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