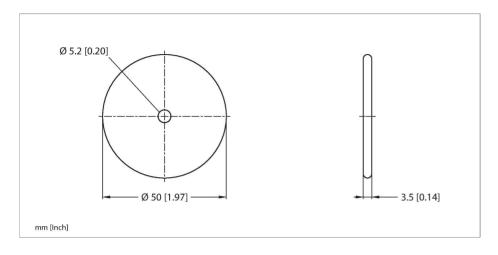
TW-R50-B128 | 02/22/2025 03-06 | technical changes reserved

TW-R50-B128 HF Tag





Technical data

| TW-R50-B128 |
|---|
| 6900504 |
| Not suitable for direct mounting on metal |
| Inductive coupling |
| HF RFID |
| 13.56 MHz |
| EEPROM |
| NXP I-Code SLI-X |
| 128 Byte |
| Read/Write |
| 112 Byte |
| unlimited |
| 10⁵ |
| 2 ms/Byte |
| 3 ms/Byte |
| ISO 15693 NFC Typ 5 |
| 10 mm |
| -40+85 °C |
| -45+85 °C |
| 140 °C, 1 × 100 h |
| Hard tag, R50 |
| 50 mm +/- 0.5 mm |
| 5.2 mm +/- 0.3 mm |
| 3.5 mm +/- 0.5 mm |
| |

Features

- The tags must undergo adequate stress tests within the proposed temperature processes before deployment.
- The following stress test was performed on this tag:
- Cyclic temperature stress: 5 min at -40 °C 5 min at 90 °C
- Number of tested cycles: 100, transition period: 30 seconds
- Continuous load: 140 °C for 100 hours
- This successfully performed test does not imply suitability for a specific application, but merely serves as proof of the basic usability.
- ■EEPROM, memory 128 byte
- ■Not for direct mounting on metal

Functional principle

The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone the size of which (0...500 mm) varies, depending on the combination of read/write head and tag used.

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

The read/write distances of tags suitable for mounting in/on metal were determined in/on metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal). Testing of the application under real operating conditions is therefore essential, especially with on-the-fly reading and writing!



Technical data

| Housing material | Plastic, PA6 |
|----------------------|---------------------|
| Active area material | Plastic, PA6, black |
| Tightening torque | ≤ 6.5 Nm |
| Protection class | IP69K |
| Packaging unit | 1 |