

TW-R30-K2 HF Tag



Technical data

Chip

Memory size

Freely usable memory

Number of read operations

Memory

Туре	TW-R30-K2
ID	6900506
Remark to product	Not suitable for direct mounting on metal
Data transfer	Inductive coupling
Technology	HF RFID
Operating frequency	13.56 MHz
Radio communication and protocol stan- dards	ISO 15693 NFC Typ 5
Read/Write distance max.	215 mm
Design	Hard tag, R30
Housing material	Plastic, PA6
Active area material	Plastic, PA6, black
Protection class	IP69K
Tightening torque	≤ 6.5 Nm
Packaging unit	1
Technical data	
Туре	TW-R30-K2
ID	6900506
Remark to product	Not suitable for direct mounting on metal
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Technology	HF RFID
Operating frequency	13.56 MHz
Memory type	FRAM



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.
- FRAM memory 2 kB
- 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!

Fujitsu MB89R118

2048 Byte Read/Write

2000 Byte

unlimited



Technical data

Number of write operations	10 ¹⁰
Typical read time	0.5 ms/Byte
Typical write time	0.5 ms/Byte
Radio communication and protocol stan- dards	ISO 15693 NFC Typ 5
Minimum distance to metal	10 mm
Temperature during read/write access	-40+85 °C
Temperature outside detection range	-40+90 °C
	140 °C, 1 × 100 h
Design	Hard tag, R30
Diameter	30 mm +/- 0.5 mm
Internal diameter	5.2 mm +/- 0.3 mm
Housing height	3 mm +/- 0.5 mm
Housing material	Plastic, PA6
Active area material	Plastic, PA6, black
Tightening torque	≤ 6.5 Nm
Protection class	IP69K
Packaging unit	1

Accessories

DS-R30



6900512 Spacer for indirect mounting of tags on metal.