# MINI-TAGspecial 4.5

HF-RFID miniature transponder, for extreme environmental conditions, mounting in metal
- passive RFID communication 13.56 MHz
- round TAG, diameter 4.5 (5.0) mm
- PEEK packaging
- for mounting in metal surface
- 64 kbit, 16 kbit or 1 kbit EEPROM memory
- designed for measuring tool management solutions, aircraft and automotive part tagging

These transponder device is an integral part of microsensys iID® system solution.
This TAG operates with microsensys standard RFID reader components and high sensitive demodulators.

## RFID Technology
- Chip Type: closed coupling RFID system iID®2000, ISO 15693 or proprietary
- Carrier Frequency: 13.56 MHz
- Communication Rate: 26.4 kbps or 106 kbps dependent on reader antenna, chip type and metal environment
- Communication Distance: 0 ... 3 mm
- Memory: EEPROM endurance >100,000 cycles, data retention > 10 years
- Memory Capacity: 64 kbit, 16 kbit and 896 bit EEPROM available
- Special Functionality: see data sheet of chip manufacturer

## Memory
- Memory Capacity: 64 kbit, 16 kbit and 896 bit EEPROM available

## Operating Temperature
- Operating Temperature: -25°C ... +65°C
- Storage Temperature: -25°C ... 150°C long term max. +85°C, short time 180°C

## Dimensions
- Dimensions: D 4.5 +/-0.1 mm (outside of metal 5.0 mm), TH 2.0 mm
- Packaging Material: PEEK, back side epoxy
- Mounting Instructions: PEEK material in black or nature colour, depending on the availability
- Marking: no marking

## Appropriate RFID Reader
- Appropriate RFID Reader: PEN reader with RS232TTL, USB or Bluetooth interface, POCKET reader K3 with USB and Bluetooth interface especially for mobile data capture
- UNI13 or Q10 read write module with K3, for microsensys OEM partner only

## HOST Command Set
- HOST Command Set: see actual API documentation of microsensys iID® driver engine or data sheets of silicon chip manufacturer

## Software
- Software: different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de

### Type

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* on inquiry

**Note:** Measured with PENmini