**D14-TAG**

**HF-RFID coin size transponder, for industrial environmental conditions**

- passive RFID communication 13.56 MHz
- round TAG, diameter 14 mm
- EPOXY packaging
- for mounting on nonmetal objects
- 1 kbit up to 64 kbit memory
- designed for item and object tagging

This transponder device is an integral part of microsensys iID® system solutions. It operates optimal with microsensys standard RFID reader components and high sensitive demodulators.

### RFID Technology:
- closed coupling RFID system iID®2000/3000, ISO 15693 or 14443
- others on request

### Chip Type:
- SLIX-X, iID®X, iID®G, iID®K

### Carrier Frequency:
- 13.56 MHz

### Communication Rate:
- down link 26.4 kbps or 106 kbps
- dependent on reader antenna, chip type and metal environment

### Communication Distance:
- 0 ... 30 mm
- dependent on reader antenna, chip type and metal environment

### Memory:
- EEPROM
- FRAM

### Memory Capacity:
- ENDurance >10^5 cycles, data retention > 10 (50) years
- ENDurance >10^12 cycles, data retention > 10 years
- 1, 2, 16, 64 kbit available

### Special Functionality:
- iID®X type is X ray suitable, see data sheet of chip manufacturer

### Operating Temperature:
- -25°C ... +85°C

### Storage Temperature:
- -45°C ... +125°C
- short time 150°C (1h)

### Dimensions Type B .100:
- D 14 mm, max. TH 2.5 mm
- D 14 mm, max. TH 3.0 mm

### Packaging Material:
- EPOXY
- FR4 substrate

### Mounting Instructions:
- EPOXY material in black, other colours on inquiry
- not using on and flat in metal
- Type .100: plane side on ground
- recommended glue: see application note

### Marking:
- laser printed

### Appropriate RFID Reader:
- PEN reader
- POCKET reader
- with RS232TTL, USB or Bluetooth interface
- with USB and Bluetooth interface especially for mobile data capture
- UNI13 or Q10 13.56 MHz read write module, for microsensys OEM partner only

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

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

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<th>Type</th>
<th>12.32.100/200*</th>
<th>12.47.100/200</th>
<th>12.54.100/200</th>
<th>12.82.290*</th>
<th>12.26.100/200*</th>
<th>*on inquiry</th>
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<td>EM4135</td>
<td>ISO 15693</td>
<td>ISO 15693</td>
<td>iID®G</td>
<td>ISO 15693</td>
<td>ISO 14443-B</td>
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