D6.7special-TAG

HF-RFID coin size transponder, for industrial environmental conditions
- passive RFID communication 13.56 MHz
- round hard TAG, diameter approx. 7 mm
- EPOXY packaging
- for mounting on metal objects
- 2 kbit up to 64 kbit memory
- designed for item and object tagging

These transponder devices are an integral part of microsensys iID® system solutions. They are working optimal with microsensys standard RFID reader components and high sensitive demodulators.

RFID Technology:
closed coupling RFID system iID®2000/3000, ISO 15693 or 14443
Chip Type:
SLI-X, iID®X, iID®G, iID®K others on request
down link 26,4 kbps or 106 kbps dependent on reader antenna, chip type and metal environment

Carrier Frequency: 13.56 MHz
Communication Rate: down link 26.4 kbps or 106 kbps
Communication Distance: 0 ... 10 mm dependent on reader antenna, chip type and metal environment

Memory: EEPROM
endurance >10⁵ cycles, data retention > 10 (50) years
FRAM
endurance >10¹² cycles, data retention > 10 years
2, 16, 64 kbit available

Memory Capacity: 2, 16, 64 kbit available

Memory Capacity:
EEPROM
endurance >10⁵ cycles, data retention > 10 (50) years
FRAM
endurance >10¹² cycles, data retention > 10 years
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: approx. D 6.7 mm, max. TH 2.5 mm, half lentil form
Packaging Material: EPOXY multi layer ferrite substrate
Mounting Instructions: using on metal, plane side on ground recommended glue: see application note
Marking: laser printing on inquiry

Appropriate RFID Reader:
interface
PEN reader with RS232TTL, USB or Bluetooth interface,
POCKET reader with USB and Bluetooth especially for mobile data capture,
M30 or M18 HEAD for industrial application
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>11.32.550</th>
<th>11.44.550*</th>
<th>11.54.550</th>
<th>11.82.590*</th>
<th>11.26.550 *on inquiry</th>
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<tbody>
<tr>
<td>Special Features:</td>
<td>-</td>
<td>extreme long life</td>
<td>-</td>
<td>Xray suitable</td>
<td>high security</td>
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<td>Chip Type:</td>
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<td>SLIX</td>
<td>iID-G</td>
<td>iID-X</td>
<td>iID-K</td>
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<td>Memory:</td>
<td>2; E²PROM</td>
<td>2; E²PROM</td>
<td>16; E²PROM</td>
<td>16; FRAM</td>
<td>64; E²PROM</td>
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<td>26.4</td>
<td>26.4</td>
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