

13.56 MHz transponder, as plastic screw

This transponder package is available with different chip types based on ISO 15693. They are integral part of microsensys iID-2000 system solution. This plastic screw transponder devices are very useful for product identification in industry and administration. It can use in harsh environment including as screw for metal items.

microsensys offers an attractive component platform for closed coupling RFID solutions.

Technology:

- RFID system iID® 2000
- mic3® technology
- closed coupling, 13.56 MHz, based on ISO 15693

Memory:

- Laser programmed ROM
- or
- EEPROM, endurance >100,000 cycles, data retention >10 years
- ID-No and user OTP possible

Carrier Frequency:

13.56 MHz

Communication Distance:

0 ... 3 mm dependent on reader antenna and metal environment

<table>
<thead>
<tr>
<th>Type:</th>
<th>10.11.803</th>
<th>10.52.803</th>
<th>10.53.803</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Type:</td>
<td>iID-N</td>
<td>iID-G</td>
<td>iID-G</td>
</tr>
<tr>
<td>Communication Rate:</td>
<td>26.4</td>
<td>26.4 kbps</td>
<td>26.4 kbps</td>
</tr>
<tr>
<td>Memory Capacity:</td>
<td>64 RO</td>
<td>2,000</td>
<td>16,000 bit</td>
</tr>
<tr>
<td>Communication Distance:</td>
<td>3</td>
<td>2</td>
<td>2 mm</td>
</tr>
</tbody>
</table>

Material:

- Plastic, 45% GF

Dimensions Type xx.803:

- D 6.3 mm, L 19 mm, SW 10

Type xx.804:

- D 6.3 mm, L 25 mm, SW 10

Mounting Instructions:

- See application notes

Operating Temperature:

- -25°C ... +65°C

Storage Temperature:

- -40°C ... +85°C

Appropriate RFID Reader:

- PEN reader with RS232TTL, USB or Bluetooth interface, for PDA with Compact Flash Card interface

HOST Command Set:

- See actual API documentation of microsensys iID driver engine or data sheets of silicon chip manufacturer