

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

## LABEL D11special

### HF-RFID transponder, label packaging

- passive RFID communication 13.56 MHz
- round label, white, diameter 13 mm
- self adhesive back side, PU cover
- designed for simple part tagging, on metal
- building on sheet

These transponder device is an integral part of *microsensys* iID<sup>®</sup> system solutions.

This TAG operates with *microsensys* standard RFID reader components and high sensitive demodulators.



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This data sheet is subject to change  
contact *microsensys* for latest information

LABEL D11sp 001.docx

|                                 |   |   |
|---------------------------------|---|---|
| <b>RFID Technology:</b>         | closed coupling RFID system iID <sup>®</sup> 2000, ISO 15693  |   |
| <b>Chip Type:</b>               |   | I-Code SLI-S, SLI-L, my-D SRF055V<br>others on request                                  |
| <b>Carrier Frequency:</b>       | 13.56 MHz   |   |
| <b>Communication Rate:</b>      |   | down link approximately 26.4 kbps   |
| <b>Communication Distance:</b>  | 0 ... 15 mm   | dependent on reader antenna, chip type<br>and metal environment                         |
| <b>Memory:</b>                  | EEPROM  | endurance >100.000 cycles, data retention > 10 years                                    |
| <b>Memory Capacity:</b>         |   | 2 kbit, 10 kbit available   |
| <b>Special Functionality:</b>   |   | see data sheet of chip manufacturer   |
| <b>Operating Temperature:</b>   | -25°C ... +65°C   |   |
| <b>Storage Temperature:</b>     |   | -25°C ... 80°C, max.60% relative humidity   |
| <b>Dimensions:</b>              | diameter 13 mm, TH max. 1,5 mm,   |   |
| <b>Packaging Material:</b>      | flexible ferrite carrier with adhesive, white printable inlet, clear PU cover   |   |
| <b>Mounting Instructions:</b>   |   | self adhesive on clean planar surface<br>direct using on metal                          |
| <b>Marking:</b>                 | no marking  | optional: laser printing or tampon print  |
| <b>Appropriate RFID Reader:</b> | PEN reader  | with RS232TTL, USB or Bluetooth interface,<br>for PDA with Compact Flash Card interface |
|                                 | POCKET reader   | with USB and Bluetooth interface<br>especially for mobile data capture                  |
|                                 | HEAD reader   | with RS232TTL, RS485, USB for industrial application                                    |
|                                 | CFC reader  | for PDA with Compact Flash Card interface   |
|                                 | UNI13 or Q10  | 13.56 MHz read write module, for <i>microsensys</i> OEM partner only                    |
| <b>HOST Command Set:</b>        | see actual API documentation of <i>microsensys</i> iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer |   |
| <b>Software:</b>                | different software for Windows PC or mobile devices available, for application software please ask at info@microsensys.de     |   |

|                                |                  |                  |                                  |
|--------------------------------|------------------|------------------|----------------------------------|
| <b>Type :</b>                  | <b>12.44.680</b> | <b>12.61.680</b> |                                  |
| <b>Chip Type:</b>              | SLI              | my-D             |                                  |
| <b>Memory:</b>                 | 2 k              | 10 k             | bit                              |
| <b>Communication Distance:</b> | 8 / 12           | 8 / 12           | mm                               |
|                                |                  |                  | measured with M30 HEAD / PENmini |