

# PRODUCT DATASHEET

iID<sup>®</sup> Transponder

## C2.8-TAG

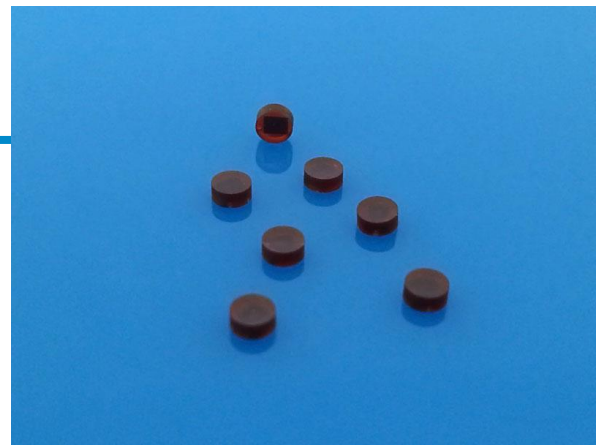
### HF-RFID mini transponder

#### for industrial environmental conditions

- passive RFID communication 13.56 MHz
- ultra small form factor, 2.8mm miniature cylindric TAG
- for mounting on non-metal objects
- 16 kbit EEPROM memory
- designed for medical application, replacement part tagging and tool management solutions

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

They operate with *microsensys* standard RFID reader components and high sensitivity demodulators.



*microsensys* GmbH  
In der Hochstedter Ecke 2  
D 99098 Erfurt

**microSensys**  
RFID in motion

TEL +49-361-59874 0  
E-MAIL info@microsensys.de  
FAX +49-361-59874 17  
WEB www.microsensys.de

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

C2.8-TAG 001.doc

<b>RFID Technology:</b>	close coupling RFID system iID <sup>®</sup> 2000/3000, ISO 15693	
<b>Chip Type:</b>		iID <sup>®</sup> G others on request
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 26.4 kbps or 106 kbps dependent on reader antenna, chip type and metal environment
<b>Communication Distance:</b>	0 ... 3 mm	
<b>Memory:</b>	EEPROM	endurance >10 <sup>5</sup> cycles, data retention >10 years
<b>Memory Capacity:</b>		16 kbit
<b>Special Functionality:</b>		see data sheet of chip manufacturer
<b>Operating Temperature:</b>	-25°C ... +85°C	
<b>Storage Temperature:</b>	-45°C ... +125°C	short time 150°C (1h)
<b>Dimensions:</b>	D 2.8 mm, TH 1.2 mm,	cylinder form
<b>Weight:</b>	< 0.01 g	
<b>Packaging Material:</b>	epoxy housing	EPOXY material clear, other colours on inquiry
<b>Mounting Instructions:</b>		not flush in metal antenna top direction recommended glue: see application note
<b>Protection Code:</b>	IP64	
<b>Marking:</b>	no marking	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader  UNI113	with RS232TTL, USB or Bluetooth interface, with USB and Bluetooth interface especially for mobile data capture 13.56 MHz read write module, for <i>microsensys</i> OEM partners only
<b>HOST Command Set:</b>	see current API documentation of <i>microsensys</i> iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer	
<b>Software:</b>	various software for Windows PC or mobile devices available, for application software please contact info@microsensys.de	

<b>Type:</b>	10.54.235.00
<b>Special Features:</b>	high memory
<b>Chip Type:</b>	iID-G
<b>RF Standard:</b>	ISO 15693-2
<b>Memory:</b>	16; E <sup>2</sup> PROM
<b>Data Retention:</b>	>10
<b>Commun. Rate:</b>	26.4

\*on inquiry

kbit  
years  
kbps