

# PRODUCT DATASHEET

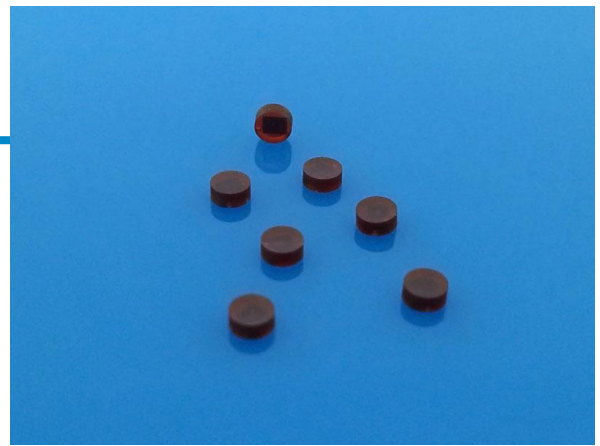
iID<sup>®</sup> Transponder

## mic3 prepackaged

### HF-RFID mini transponder, for industrial environmental conditions

- passive RFID communication 13.56 MHz
- round TAG, diameter 2.8 mm
- EPOXY packaging
- for mounting on nonmetal objects
- 16 kbit memory
- designed for item and object tagging

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



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This data sheet is subject to change  
contact [microsensys](mailto:info@microsensys.de) for latest information

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<b>RFID Technology:</b>	closed 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
<b>Communication Distance:</b>	0 ... 3 mm	dependent on reader antenna, chip type and metal environment
<b>Memory:</b>	EEPROM	endurance >10 <sup>5</sup> cycles, data retention > 10 years
<b>Memory Capacity:</b>		16 kbit available
<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 Type B .100:</b>	D 2.8 mm, TH 1.2 +/-0.1 mm,	cylinder form
<b>Packaging Material:</b>	EPOXY	EPOXY material clear, other colours on inquiry
<b>Mounting Instructions:</b>		not using flat in metal antenna top direction recommended glue: see application note
<b>Marking:</b>	no marking	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader  UNI13	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 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 <a href="mailto:info@microsensys.de">info@microsensys.de</a>	

<b>Type:</b>	<b>15.53.200</b>	*on inquiry
<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	kbit
<b>Data Retention:</b>	>10	years
<b>Commun. Rate:</b>	26.4	kbps