

PRODUCT DATASHEET

iID[®] Transponder

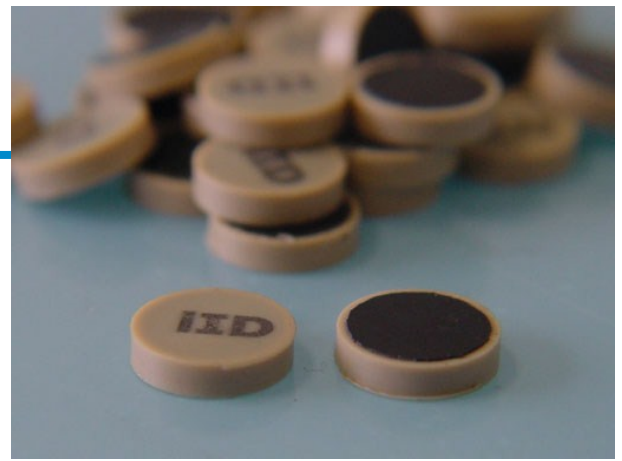
MINI-TAGspecial 8.5

HF-RFID transponder, for extreme environment

- passive RFID communication 13.56 MHz
- round TAG, diameter 8.5 mm
- PEEK packaging
- on metal and flat mounting in metal possible
- up to 64 kbit memory
- designed for aircraft and automotive part tagging
- successful in industrial applications over 10 years

These transponder device is an integral part of *microsensys* iID[®] system solutions.

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



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RFID in motion

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

MINI-TAGsp85-06

RFID Technology:	closed coupling RFID system iID [®] 2000, ISO 15693 system iID [®] 3000, ISO 14443B	
Chip Type:		iID [®] -G, iID [®] -K, iID [®] -Q others on request
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link 26.4 or 106 kbps
Communication Distance:	0 ... 5 mm	dependent on reader antenna, chip type and metal environment
Memory:	EEPROM	endurance >100.000 cycles, data retention 10 years or up to 60 years
Memory Capacity:		2 kbit, 16 kbit and 64 kbit available
Special Functionality:		see data sheet of chip manufacturer
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-45°C ... 150°C	long term max. +85°C, short time 180°C
Dimensions:	D 8.5 +/-0.1 mm, TH 2.0 mm	
Packaging Material:	PEEK, back side epoxy	inlet mixed ferrite epoxy
Marking:	laser printing	
Mounting Instructions:	using flat in metal possible	plane and printed side on top recommended glue: 2K-EP "plus endfest 300" UHU GmbH Germany
Appropriate RFID Reader:	PEN reader POCKET reader UNI13 or Q10	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
HOST Command Set:	see actual API documentation of <i>microsensys</i> 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	

Type :	15.32.502	15.36.502	15.54.502	15.26.502	
Chip Type:	iID-M	iID-Q	iID-G	iID-K	
Standard:	ISO 15693	ISO 15693	ISO 15693-2	ISO 14443 B	
Memory:	2,000	2,000	16,000	64,000	bit
Communication Rate:	26.4	26.4	26.4	106	kbitps
Communication Distance:	3	3	3	2	mm
					measured with PENmini