

PRODUCT DATASHEET

iID[®] Transponder

MINI-TAGspecial 4.5

HF-RFID miniature transponder, for extreme environmental conditions, mounting in metal

- passive RFID communication 13.56 MHz
- round TAG, diameter 4.5 (5.0) mm
- PEEK packaging
- for mounting in metal surface
- 64 kbit or 16 kbit EEPROM memory
- designed for aircraft and automotive part tagging

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-TAGsp45-01

RFID Technology:	closed coupling RFID system iID [®] 2000, ISO 15693 or proprietary	
Chip Type:		iID [®] -G, iID [®] -K others on request
Carrier Frequency:	13.56 MHz	
Communication Rate:		down link 26.4 kbps or 106 kbps
Communication Distance:	0 ... 3 mm	dependent on reader antenna, chip type and metal environment
Memory:	EEPROM	endurance >100.000 cycles, data retention > 10 years
Memory Capacity:		64 kbit and 16 kbit EEPROM available
Special Functionality:		see data sheet of chip manufacturer
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-25°C ... 150°C	long term max. +85°C, short time 180°C
Dimensions:	D 4.5 +/-0.1 mm (outside of metal 5.0 mm), TH 2.0 mm	
Packaging Material:	PEEK, back side epoxy	inlet mixed ferrite epoxy
Mounting Instructions:	PEEK material in black or nature colour, depending on the availability using flat in metal possible plane side on top recommended glue: 2K-EP "plus endfest 300" UHU GmbH Germany	
Marking:	optional laser printing	
Appropriate RFID Reader:	PEN reader POCKET reader K3 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 :	10.11.514	10.54.514	* on inquiry
Chip Type:	iID-K	iID-G	
Standard:	ISO 14443B	ISO 15693-2	
Memory:	64,000; EEPROM	16,000; EEPROM	bit
Communication Rate:	106	26.4	kbps
Communication Distance:	1.5	2	mm
			measured with PENmini