

PRODUCT DATASHEET

iID[®] Transponder

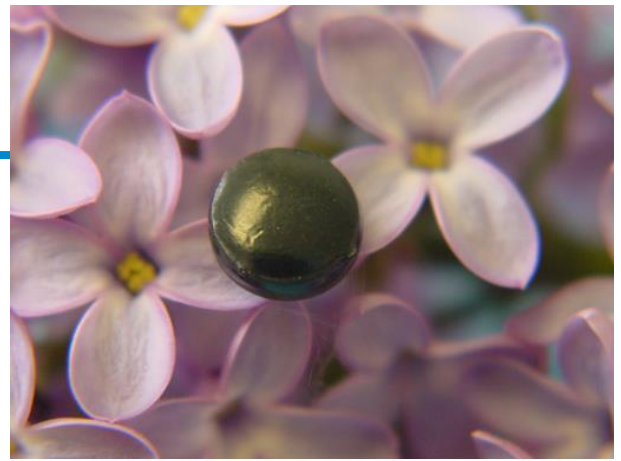
D5-TAGspecial

HF-RFID transponder 5mm diameter, on metal

- passive RFID communication based on ISO 15693
- mic3[®] technology
- half-lens shape, ferrite substrate, epoxy packaging
- ROM or EEPROM memory in different chip types
- usable in wide temperature range and harsh environmental conditions

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

On-metal transponder devices are very useful for product identification in industry and administration. This D5-TAG is based on mic3 technology and operates with *microsensys* special RFID reader components.



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

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RFID Technology:	close coupling RFID system iID [®] 2000 / 3000	
Chip Type:		iID-G and iID-H (ISO 15693-2)
Carrier Frequency:	13.56 MHz	
Communication Rate:		up link and down link 26.4 kbps or 106 kbps
Communication Distance:	0 ... 3 mm	dependent on chip type, reader antenna and metal environment
Memory:		ROM read only or EEPROM read write type EEPROM: endurance >100.000 cycles, data retention >10 years 16 kbit RW available depending on chip type
Memory Capacity:		
Special Functionality:		
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-45°C ... +150°C / 180°C	high temperature not for permanent load
Dimensions / Weight:	approx. D 5.0 mm, max. TH 2.5 +/-0.3 mm, 0.13 g	half-lens housing
Packaging:		ferrite substrate, black EP
Mounting Instructions:		adhesive, on metal possible, plane side on metal
Protection Code:	IP67	
Marking:		no printings
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface,
	POCKET reader	with USB and Bluetooth interface especially for mobile data capture
	UNI13	13.56 MHz read write module for microsensys OEM partners only
	all readers require special antenna	
HOST Command Set:	see current 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 contact info@microsensys.de	

Type :	10.54.550	10.55.550*	11.47.550*	*) on inquiry
System:	ISO 15693-2	only for projects ISO 15693-2	data retention >50 years ISO 15693	
Chip Type:	iID-G	iID-H	SLIX-S	
Max. Temperature:	+150	+150	+150	°C
Memory Capacity:	16	32	1.3	kbit
Communication Distance:	2	2	2	mm
			measured with type K3 antenna, on metal, typically	