

PRODUCT DATASHEET

iID[®] Transponder

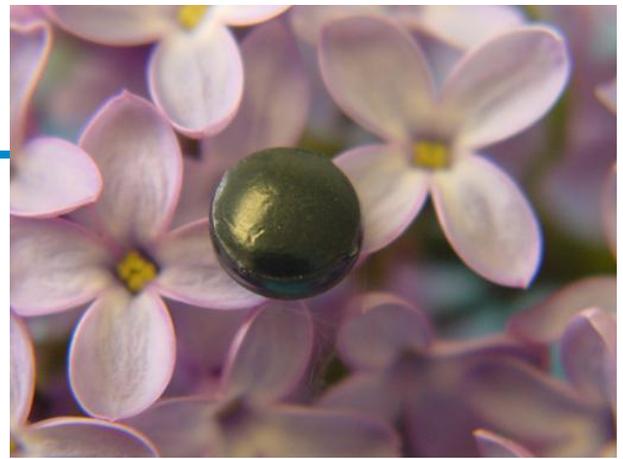
D5-TAGspecial

HF-RFID transponder 5mm diameter, on metal

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

These 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
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RFID Technology:	closed coupling RFID system iID [®] 2000 / 3000	
Chip Type:	iID-N (proprietary), iID-G and iID-H (ISO 15693-2), iID-K (ISO 14443B)	
Carrier Frequency:	13.56 MHz	
Communication Rate:		up link and down link 26.4 kbps or 106 kbps
Communication Distance:	0 ... 4 mm	dependent on chip type, reader antenna and metal environment
Memory:		ROM read only or EEPROM read write type
Memory Capacity:		EEPROM: endurance >100.000 cycles, data retention > 10 years
Special Functionality:		64 bit RO, 16 kbit RW, 64 kbit RW available depending on chip type
Operating Temperature:	-25°C ... +65°C	
Storage Temperature:	-45°C ... +150°C / 180°C	high temperature not for permanent load
Dimensions:	approx. D 5.0 mm, TH 2,0 +/-0.3 mm,	half lentil case
Packaging:		plastic packed, ferrite substrate, black EP
Weight:		approx. 0.1g
Mounting Instructions:		adhesive, on metal possible, plane side on metal
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 <i>microsensys</i> OEM partner only
	for all readers special antenna necessary	
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 :	10.13.550	10.54.550	10.55.550	10.26.550	
System:	not for new projects		only for projects	from Q3-2012	
Chip Type:	ISO 15693	ISO 15693-2	ISO 15693-2	ISO 14443B	
Max. Temperature:	iID-N	iID-G	iID-H	iID-K	
Memory Capacity:	+180	+150	+150	+150	°C
Communication Distance:	64 ROM	16,000	32,000	64,000	bit
	2	2	2	2	mm
					measured with type K3 antenna, on metal, typically