PRODUCT DATASHEET

iID® RFID Transponder

LABEL1836special

13.56 MHz transponder for industrial applications:

- **part and equipment tagging on metal and non-metal surface**
- **designed for maintenance and facility management applications**
- **optional barcode printings and TAG initialization**

This transponder package is available with various chip types. They are integral part of *microsensys* iID system solutions. Lentiform transponder devices are very useful for product identification in industry and administration especially for tagging of metal objects.

microsensys offers an attractive component platform for close coupling RFID solutions.

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This data sheet is subject to change. Contact microsensys for latest information.

RFID Technology:		system iID®2000, close coupling, based on ISO 15693
Carrier Frequency:		13.56 MHz
Communication Rate:		down link 26.4 kbps
Communication Distance:	0 ... 30 mm	dependent on reader antenna, chip type and metal environment
Memory:		EEPROM, endurance >100.000 cycles, data retention >10/50 years, Unique TID, user memory lock feature
Dimensions:		approx. 20 x 38 mm², max. TH 2.0 mm
Case Material:		chip in multi ferrite layer packaging, front side clear PU half flexible, minimum bending radius =50mm hermetic encapsulation
Mounting Instructions:		self-adhesive, direct on-metal use possible
Packaging Units:		on 181 x 288.4 mm page, 28 pieces per page
Optional Services:		graphic printing (customer logo, bar code, running number) memory personalization and initialization
Operating Temperature:		-25°C ... +65°C
Storage Temperature:		-25°C ... +80°C
Ingress Sealing:		IP64
Appropriate RFID Reader:		PEN / POCKET reader, UNI13, POCKET mini, M30 HEAD and more
HOST Command Set:		see current API documentation of *microsensys* iID driver engine or data sheets of silicon chip manufacturer

TAG Types	**13.42.686.00***	**13.45.686.00**	**13.451.686.00**	
System:	ISO 15693	ISO 15693	ISO 15693	
Chip Type:	I-CODE SLI	I-CODE SLIX	I-CODE SLIX2	
Memory Capacity	1k RW	1k RW	2560 RW	bit
Comm. Rate	26.4	26.4	26.4	kbps
Comm. Distance	20	30	30	mm

measured with P13 reader antenna type, *) on inquiry

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