## *iID*<sup>®</sup> transponder

**Product Data Sheet** 



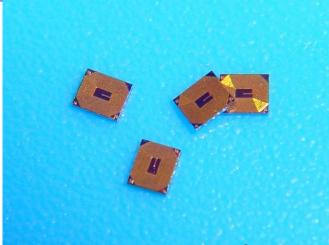
mic3<sup>®</sup>-TAG 16k/32k

DC 10.54.100 DC 10.53.100

## 13.56 MHz closed coupling transponder, 32kbit EEPROM read write, in mic3 technology

mic3-TAGs are very useful for high volume applications and small part tagging.

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



chip size 1.7 x 2.0 mm, TH approx. 0.5 mm

RFID system *iID*<sup>®</sup>2000 passive RF transponder,  $mic3^{\text{®}}$  technology (high Q coil on chip technology) closed coupling, 13.56 MHz, based on ISO 15693 EEPROM, endurance >100.000 cycles, data retention >10 years

Memory:

**Technology:** 

ID-No and user OTP possible

Carrier Frequency:	13.56 MHz	
Communication Distance:	0 5 mm	

dependent on reader antenna

Туре:	10.53.100	10.54.100	
System:	ISO 15693-2	ISO 15693-2	
Chip Type:	iID-G	iID-H	
Communication Rate:	26.4	26,4	kbps
Memory Capacity:	16,000	32.000	bit
Operating Distance:	3	3	mm
operating distance with K3 PEN reader antenna			

**Dimensions / Chip Packaging:** 

	5-	other thickness on inquiry the front side of the silicon chip is polyamide passivated
Delivery Package:	type 000 type 001 type 002	pour in waffle pack sawn and tested wafer, frame
Mounting Instructions:		microsensys supports device implementation for different processes using flat on metal in generally possible (coil side on top) recommended glue: see application note
Operating Temperature: Storage Temperature:		0°C +65°C -45°C +150°C
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB, Compact Flash Card interface or Bluetooth interface with K3 antenna
	M12 HEAD	industrial 13.56 MHz read write unit with M12 antenna for microsensys OEM partner only

HOST Command Set: see actual API documentation of microsensys iID driver engine and chip documentation