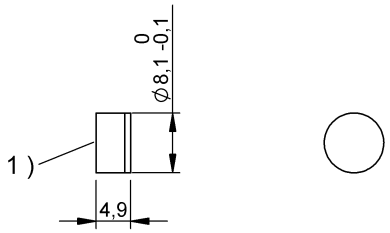
HF (13.56 MHz)

BIS M-103-03/L-SA1
Order Code: BIS01A1



1) Sensing surface

Basic features

Antenna type	round
Approval/Conformity	CE WEEE EAC
EN 55011	Size 1, Cl. A
EN 55022	Size 1, Cl. B
Principle of operation	Data carrier

Electrical data

Memory organization	28 × 4 bits
Programming cycles	up to 70 °C: 100,000
Programming time	for 16 bytes: 0.1s
Read cycles	Unlimited
Read time	User ID for 8 bytes: 0.02 s for 16 bytes: 0.03 s

Environmental conditions

Ambient temperature	-20...85 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
IP rating	IP68
Storage temperature	-40...85 °C

Functional Characteristics

Memory type	EEPROM
UID serial number, read-only	8 Byte
User data, read/write	112 Byte

Functional safety

MTTF (40 °C)	109 a

Material

Housing material	PEEK, Natural

Mechanical data

Application weight	1.00 g
Dimension	Ø 8.1 x 4.9 mm
Installation	metal-free (clear zone)

Remarks

Time specification includes data check.
For installation in metal: Observe clear zone.
For installation requirements see corresponding read/write head.
Only when used together with the appropriate read/write head.
Values are under rated conditions unless otherwise specified.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.