HF (13.56 MHz)

BIS M-105-02/A
Order Code: BIS0042



1) Sensing surface

Basic features

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

Electrical data

Data retention time/years	≥ 10 at 55 °C
Memory organization	250 × 8 bits
Programming cycles	≥ 10.000.000.000
Programming time	for 16 bytes: 0.060s
Read cycles	Unlimited
Read time	for 16 bytes: 0.03 s User ID for 8 bytes: 0.02 s

Environmental conditions

Ambient temperature	-25...70 °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	IP67
Storage temperature	-25...85 °C

Functional Characteristics

Memory type	FRAM
Supported data carrier types	DIN ISO 15693
UID serial number, read-only	8 Byte
User data, read/write	2000 Byte

Material

Housing material	Epoxy-resin/fiberglass, GF

Mechanical data

Application weight	1.50 g
Dimension	Ø 11.98 x 6 mm
Installation	metal-free (clear zone) on metal flush in metal

Remarks

Time specification includes data check.
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.
Impact loading not permitted.