



Main

Range of product	OsiSense XG
Product or component type	Electronic tag
RFID electronic tag name	XGHB
RFID frequency	13.56 MHz
Design	Disc
Memory capacity	112 B
Associated smart antenna	XGCS
[Sn] nominal sensing distance	100 mm with XGCS89 150 mm with XGCS49 + field expander XGFEC2525 70 mm with XGCS49 70 mm with XGCS49 + field expander XGFEC540 100 mm with XGCS85
Outer dimension	Ø 50 x 3 mm
Quantity per set	Set of 10
Read time	12 + 0.825 x (number of 16-bit words) ms
Write time	12 + 5.6 x (number of 16-bit words) ms
IP degree of protection	IP68
Fixing mode	By screws

Complementary

Memory type	EEPROM
Memory operation	Read/write
Number of read cycles	Unlimited
Number of write cycles	2500000 at 30 °C 100000 at -25...85 °C
Maximum linear speed with "auto read/write function"	0.6 m/s with XGCS49 (read or write 10 words) 5.3 m/s with XGCS49 (read a serial number) 1.6 m/s with XGCS49 (read a word) 7.1 m/s with XGCS89 (read a serial number) 4 m/s with XGCS89 (read a word) 0.8 m/s with XGCS89 (read or write 10 words) 7.1 m/s with XGCS85 (read a serial number) 4 m/s with XGCS85 (read a word) 0.8 m/s with XGCS85 (read or write 10 words)
Data retention time	10 year(s)

Material	PPA (polyphthalamide)
Net weight	0.015 kg

Environment

Standards	ISO 15693
Ambient air temperature for operation	85...140 °C for 10 min maximum not during transmission -25...85 °C
Ambient air temperature for storage	-40...90 °C
Vibration resistance	2 mm (f = 5...29.5 Hz) conforming to EN 60068-2-6 7 gn (f = 29.5...150 Hz) conforming to EN 60068-2-6
Shock resistance	30 gn for 11 ms conforming to EN 60068-2-27
IK degree of protection	IK02 conforming to EN 50102

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
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