



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	2 kB
Associated smart antenna	XGCS
[Sn] nominal sensing distance	1.65 in (42 mm) XGCS49 + field expander XGFEC540 1.89 in (48 mm) XGCS49 2.56 in (65 mm) XGCS89 3.15 in (80 mm) XGCS49 + field expander XGFEC2525 2.56 in (65 mm) XGCS85
Outer dimension	Ø 30 x 3 mm
Quantity per set	Set of 5
Read time	7 + 2 x (number of 16-bit words) ms
Write time	7 + 2.4 x (number of 16-bit words) ms
IP degree of protection	IP68
Fixing mode	By screws

Complementary

Memory type	FeRAM
Memory operation	Read/write
Number of read cycles	10000000000
Number of write cycles	10000000000 -13...158 °F (-25...70 °C)
Maximum linear speed with "auto read/write function"	6.89 ft/s (2.1 m/s) XGCS49 read a serial number 4.92 ft/s (1.5 m/s) XGCS49 read a word 1.97 ft/s (0.6 m/s) XGCS49 read or write 10 words 11.48 ft/s (3.5 m/s) XGCS89 read a serial number 8.20 ft/s (2.5 m/s) XGCS89 read a word 3.28 ft/s (1 m/s) XGCS89 read or write 10 words 11.48 ft/s (3.5 m/s) XGCS85 read a serial number 8.20 ft/s (2.5 m/s) XGCS85 read a word 3.28 ft/s (1 m/s) XGCS85 read or write 10 words
Data retention time	10 year(s)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Material	PPA (polyphthalamide)
Net weight	0.01 lb(US) (0.005 kg)

Environment

Standards	ISO 15693
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	2 mm 5...29.5 Hz)EN 60068-2-6 7 gn 29.5...150 Hz)EN 60068-2-6
Shock resistance	30 gn 11 ms EN 60068-2-27
IK degree of protection	IK02 EN 50102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	0.11 oz (3 g)
Package 1 Height	0.39 in (1 cm)
Package 1 width	2.36 in (6 cm)
Package 1 Length	3.54 in (9 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	5
Package 2 Weight	0.63 oz (18 g)
Package 2 Height	5.51 in (14 cm)
Package 2 width	3.15 in (8 cm)
Package 2 Length	0.39 in (1 cm)
Unit Type of Package 3	S01
Number of Units in Package 3	250
Package 3 Weight	2.30 lb(US) (1.042 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	5.91 in (15 cm)
Package 3 Length	15.75 in (40 cm)

Offer Sustainability

RECh Regulation	RECh Declaration
RECh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes