

HL-LFGS6P6260

LF Glass Tag



1. SCOPE

This Product Specification (PS) describes the physical, electrical, thermal, mechanical and chemical properties of the GT 3.85/32MM LF HDX 134.2KHZ R/W

2. PRODUCT SPECIFICATION

2.1 Part Number and Designation

PART NUMBER	DESIGNATION
HL-LFGS6P6260	GT 3.85/32MM LF HDX 134.2KHZ R/W

2.2 Product Features

- Very high chemical resistance
- Long range reading distance
- Biocompatible (Biocompatibility certificate of Bio glass available upon request).
- Read / Write capabilities for specific applications

2.3 Chip Features

- Contactless power supply, very low power
- Contact-less read/write data transmission
- ISO 11784/11785 compliant HDX
- Operating frequency: 134.2 kHz
- Multipage transponder (MPT)
- 1360 bits EEPROM
- 17 pages read / write memory
- Modulation type: FSK 134.2 / 124.2 kHz
- Data bit rate: RF/16
- On-the fly LC tuning to tune transponders

2.4 Physical & Environmental Parameters

	PARAMETER	VALUE AND TOLERANCE
PHYSICAL	Diameter	3.85 ± 0.2mm
	Length	31.5 ± 0.5mm
	Housing material	Bioglass
	Weight	0.900 ± 0.15g
THERMAL	Operating temperature	- 25 °C to + 85 °C
	Storage temperature	- 40 °C to + 90 °C 1000 h
	Peak temperature	+ 120 °C 100 h + 140 °C 10 h
	Temperature shock/fatigue	- 40 °C to + 90 °C 100 cycles soaking time 5min, transition time 30s
CHEMICAL AND ENVIRONMENTAL	Resistance at room temperature	Aqueous solution of salts 100 h Alcohol 100 h Hydrochloric acid (10%) 100 h Fuel B 100 h 25 % Ammonium chloride 100 h
	Immersion at room temperature	Water IP68 1 m / 24 h
MECHANICAL	Shock	IEC 68-2-29
	Vibration	IEC 68-2-6

2.5 Electrical Parameters

	PARAMETER	VALUE AND TOLERANCE
ELECTRICAL	Self-Resonant Frequency – SRF	134.2 ± 1.5 kHz 123.2 ± 2 kHz
	Electrostatic Discharge - ESD ¹	± 5 kV 2 times

¹ According to MIL-883 3015.7

2.6 DISCLAIMER

EPC Solutions Taiwan Inc. accepts no responsibility for the use of the tag outside the mentioned specification.

Any additional requirement for a customized and specific application has to be validated by the customer himself at his own responsibility.

All performances mentioned above are subject to validation by design, qualification or production control.








The delivered product quality is therefore defined according to the specified production control methods.

2.7 Normative Reference

2.7.1 Standards and directives

Declaration of conformance to standards and directives are available upon request.

2.7.2 Environment

	European Conformity
	UK Conformity Assessed
	WEEE (Waste of Electronic and Electrical Equipment)
	China RoHS (Restriction of Hazardous Substances)
	REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)
	RoHS (Restriction of Hazardous Substances)
	Halogen Free

This product is a unique identification product. As part of the commitment to environment, the end of life treatment for process waste and product out of function must be disposed of in accordance with all applicable Federal /State or Local regulations.

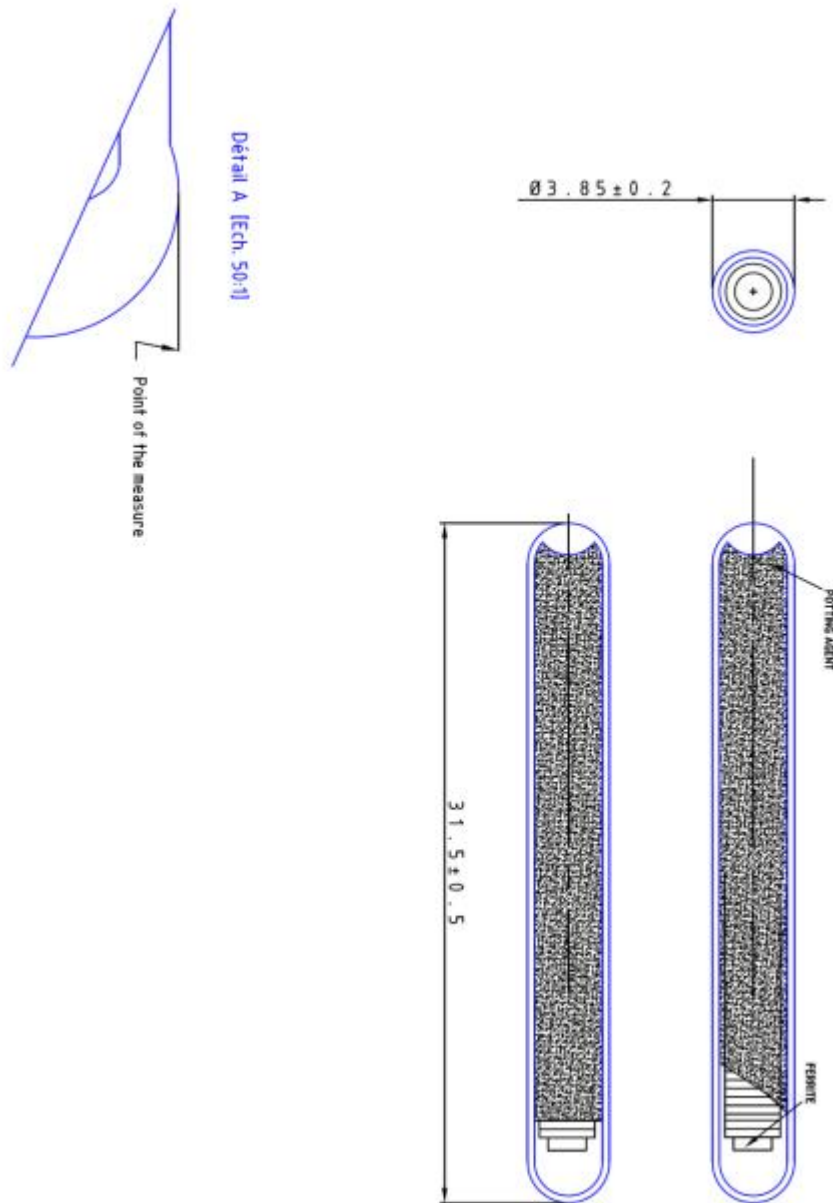
It is based on a passive RFID transponder with no internal power source such as battery. To operate, the transponder needs to be placed in front of a reader electromagnetic field so it can harvest its energy.

The lifecycle of this product will depend of the application and the exposure. Inspect the product regularly to make sure the housing has not been visually or mechanically damaged.

Do not repair a damaged product but replace it by a new one.

3. DRAWING

3.1 Product Drawing





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3.2 Printing and Marking

Not Applicable

3.3 Artwork

Not Applicable

4. AVAILABLE CUSTOM FEATURES

Not Applicable

5. Packaging

Quantities per canister	1,000pcs
Quantities per Box	6,000pcs / carton box