

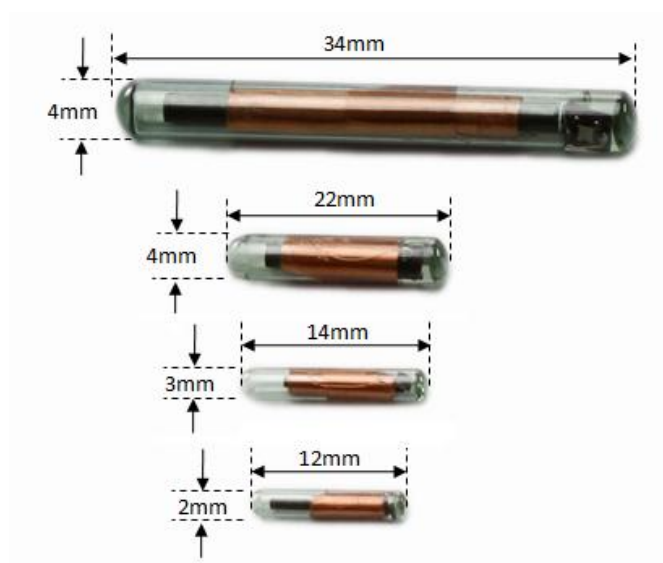
## LF Glass Tag

**Product Code: L13XXXX**

RFID Glass tags are ideal for animal identification as well as medical testing applications. They are also suitable for automotive applications such as immobilizer. These tags are available in various sizes with different Chips & memory sizes.



### Tag Dimensions



## Electrical Specifications

|                           |  |  |  |  |
|---------------------------|--|--|--|--|
| Air Interface Protocol    | ISO/IEC 11784/85, Read Only Mode, Animal Mode  |  |  |  |
| Operational Frequency     | 134.2KHz (125KHz on request)   |  |  |  |
| Chip**                    | NXP Hitag $\mu$ / EM4305   |  |  |  |
|                           | Memory organization HITAG $\mu$ : The EEPROM has a capacity of 1760 bits and is organized in blocks of 4 bytes each (1 block = 32 bits).<br>For EM4305: 512-bit EEPROM organized in 16 words of 32 bits. |  |  |  |
| Dimension                 | Ø2 X 12 mm   | Ø3 X 14 mm                             | Ø4 X 22 mm                             | Ø4 X 34 mm                             |
| Product Code              | L131219  | L132132                                | L134219                                | L133219                                |
| Chip                      | NXP Hitag $\mu$  | EM4305                                 | NXP Hitag $\mu$                        | NXP Hitag $\mu$                        |
| Read Range*               | Up to 15 mm on GiS TS-RW 380 Plus Reader   | Up to 30 mm on GiS TS-RW 380 AC Reader | Up to 40 mm on GiS TS-RW 380 AC Reader | Up to 50 mm on GiS TS-RW 380 AC Reader |
| Operating temperature     | -40°C to +85°C   |  |  |  |
| Storage temperature       | -40°C to +85°C   |  |  |  |
| Ingress protection rating | IP68   |  |  |  |
| Attachment***             | Syringe Injection  |  |  |  |
| Expected Lifetime         | More than 5 Years in Normal Operating Conditions   |  |  |  |

## Physical and Mechanical Specification

|                   |                   |            |            |            |
|-------------------|-------------------|------------|------------|------------|
| Dimension         | Ø2 X 12 mm        | Ø3 X 14 mm | Ø4 X 22 mm | Ø4 X 34 mm |
| Weight            | 0.12 gm           | 0.25 gm    | 0.70 gm    | 1.2 gm     |
| Encasement        | Bio Glass         |            |            |            |
| Color**           | Black/Transparent |            |            |            |
| Quality Assurance | 100% read tested  |            |            |            |

## Chemical Resistance

|  |
|--|
| Resistant to continuous exposure to salt water for 2 hours |
| Resistant to continuous exposure to motor oil for 2 hours  |
| Additionally, abrasion resistant against HCL and IPA       |

## Additional Services

|                  |                                 |
|------------------|---------------------------------|
| Pre-encoding     | On request                      |
| Customization*** | Logo / text printing on request |

## Order Information

|         |                      |
|---------|----------------------|
| L13X132 | With EM 4305         |
| L13X192 | With ATA 5577        |
| L13X219 | With NXP Hitag $\mu$ |

For  $\varnothing$ 2 X 12 mm Glass Tag X value is 1

For  $\varnothing$ 3 X 14 mm Glass Tag X value is 2

For  $\varnothing$ 4 X 22 mm Glass Tag X value is 4

For  $\varnothing$ 4 X 34 mm Glass Tag X value is 3

(For Ex: L13X132 $\Rightarrow$  L132132 is  $\varnothing$ 3 X 14 mm Glass Tag with EM 4305 Chip)

- |     |  |
|-----|--|
| *   | Actual read range may vary depending upon the reader |
| **  | Other on request                                     |
| *** | Available as an option at extra cost                 |

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