



**GLASS TAGANY**  
**2 mm x 12 mm**  
**64 bits Read Only Unique**  
**125 kHz**  
**ISO-IEC18000-2**

|                                                        |                                                                                                                                                                                             |                                                                                                                            |                                  |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Description:</b>                                    | GLASS TAGANY 2 mm x 12 mm 64 bits Read Only Unique, 125 kHz ISO-IEC18000-2                                                                                                                  |                                                                                                                            |                                  |
| <b>IC type:</b>                                        | EM4102 Manchester encoded, RF/64, 64 bits Read Only (factory laser programmed)                                                                                                              |                                                                                                                            |                                  |
| <b>IC on request:</b>                                  | (R/O 134 kHz: EM4105)                                                                                                                                                                       | (R/W 125 kHz or 134,2 kHz Hitag S256, S2048)                                                                               | Other Type-Part-No's. see below. |
| <b>Physical:</b>                                       | Diameter:                                                                                                                                                                                   | 2,12 mm                                                                                                                    | ± 0.1 mm                         |
|                                                        | Length:                                                                                                                                                                                     | 12 mm                                                                                                                      | ± 0.5 mm                         |
|                                                        | Weight:                                                                                                                                                                                     | 0,15 g                                                                                                                     | ± 0.1 g                          |
|                                                        | Material:                                                                                                                                                                                   | Bio Glass                                                                                                                  | Colour: Transparent              |
|                                                        | Assembly:                                                                                                                                                                                   | Welded by laser                                                                                                            |                                  |
| <b>Electrical:</b>                                     | Operating Frequency:                                                                                                                                                                        | 125 kHz                                                                                                                    | (At room temperature 20 °C)      |
| <b>Thermal:</b>                                        | Operating Temperature:                                                                                                                                                                      | -20 °C to +60 °C                                                                                                           |                                  |
|                                                        | Storage Temperature:                                                                                                                                                                        | -40 °C to + 90 °C (Up to 1000 h)                                                                                           |                                  |
| <b>Chemical:</b>                                       | Resistance to immersion of alcohol, oil, salt water, 10% HCL and ammoniac (about 100 h)                                                                                                     |                                                                                                                            |                                  |
| <b>Protection Class:</b>                               | IP68 (20 °C, 24 h, 1 m)                                                                                                                                                                     |                                                                                                                            |                                  |
| <b>Reading Range:</b><br>At room temperature<br>20 °C) | Depending on the reader design and local installation conditions.<br>With TECTUS Reader CF Card TLP-10 /11 up to 30 mm, with stationary TPF-3x up to 200 mm.<br>(At room temperature 20 °C) |                                                                                                                            |                                  |
| <b>Other:</b>                                          | Made in:                                                                                                 | ISO9000-2000 QS qualified production  | ATEX Version is also available   |
| <b>Type: Part-No.</b>                                  | EM4102 Unique 125kHz ASK:<br>TCK-00-AA                                                                                                                                                      | EM4105 FDX-B 134kHz:<br>TCK-21-AA                                                                                          |                                  |
| <b>Type: Part-No.</b>                                  | Hitag S 256 FDX-B 134kHz:<br>TCK-12-AA                                                                                                                                                      | Hitag S 2048 FDX-B 134kHz:<br>TCK-13-AA                                                                                    |                                  |