

# ALC-Tech (M) Sdn Bhd (610609-M)

TEL: (603) 62801650    TEL: (607) 559 1650    TEL: (604) 262 1650  
Email: sales@alcaidc.com



ISO PVC CARD

MF1S50

## 1) Physical Property and Electronic Performance

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------|
| <b>Description</b>      | 1K Byte, R/W, 13.56MHz, Data retention of 10 years, Write endurance 100,000 cycles.                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                |
| <b>IC types</b>         | MIFARE Std 1K MF1 IC S50 (4NUID)  founded by Philips                                                                                                                                                                                                                                                                                                                                                      |                 |         |                |
| <b>Frequency</b>        | 14.7MHz+/- 0.5MHz, (For Your Information)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |                |
| <b>Reading Distance</b> | Depending on the reader design and local installation conditions                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |                |
| <b>Antenna</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |                |
| <b>Structure</b>        | 4 layers of PVC sheet , <b>Material</b> : PVC                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                |
| <b>Physical</b>         | Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.8mm± 0.04mm   | Weight  | 5.8g± 0.5g     |
|                         | Width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 53.98mm± 0.05mm | Color   | White/ White   |
|                         | Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85.60mm±0.013mm | Surface | Matt or Glossy |
| <b>Printing</b>         | Printable with offset, silkscreen, personalizing.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                |
|                         | Printable with ink Jet numbering, laser engrave numbering, thermo printed numbering (various different format)                                                                                                                                                                                                                                                                                                                                                                              |                 |         |                |
| <b>MagStripe</b>        | Optional Loco 350 Oe, Hico650 Oe, 2750 Oe and 4000 Oe at ISO position.                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |                |
| <b>Specials</b>         | <ol style="list-style-type: none"><li>Cards can withstand to static and dynamic curvature and torsion 1000 cycles. These tests are carried out in conformance to ISO 10373-1 standard. Cards is still functional after test. Chip, antenna and connection between antenna and chip can be against any failure.</li><li><b>Storage:</b> Temperature: 0℃, + 50℃, Relative Humidity 30 at 70 % RH</li><li><b>Operation:</b> Temperature: -20℃, + 50℃, Relative Humidity 5 at 95 % RH</li></ol> |                 |         |                |

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## 2) Recommendable Operating Conditions

- 2.1 There shall be no metal material or equipment within 50cm.
- 2.2 There shall be no CRTs such as PC or TV that could become a source of noise within 1m.
- 2.3 The usage should be under in normal indoor temperature and humidity.

## 3) Precautions When Using Product

- 3.1 Do not bend or apply excessive force to the product.
- 3.2 Be careful of the amount of force placed on the product during printing...ect.
- 3.3 In order to preserve stored data,keep product away from magnets.
- 3.4 Do not store product on car dashboards or other locations where the temperature may become very hot.

## 4) Defective Products

Any products that do not fall within standard specifications due to defects or errors in manufacture will be replaced with properly working ones by following the prescribed product replacement application.

## 5) Warranty

Product warranty is valid for a period of one year after delivery of the product.

This warranty is not valid in the below events :

- 5.1 Damage or defects due to storage higher than temperatures notes in the spec.
- 5.2 Extended exposure to direct sunlight.water or chemical agents.
- 5.3 The application of excessive force.
- 5.4 Exert the external force excessively on the products and transform the standard structure of product.

## 6) Change to These Specifications

In the event of that any omissions or errors are discovered in this specification document.we will promptly act to have it corrected.

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