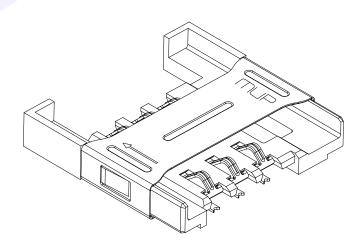


# SAMPLE APPROVAL

Model No.: MUP C742-1

**Revision: 1.0** 

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**MUP INDUSTRIAL CO., LTD** 

LingWu Industrial Park, Junzibu, Guanlan Street, Baoan District Shenzhen, China

TEL: 0755-29673656/57/58 FAX: 0755-29673655

E-Mail: sales@mupconnector.com URL: Http:// www.mupconnector.com



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#### 1. INTRODUCTION

#### 1.1 General

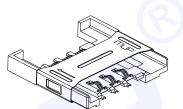
The C742 is in strict accordance with
GSM11.11 international recognized standard,
It is designed for high performance and
flexibility to give prospective customers
a quick applications of the individual devices in their
product series, Other kinds of models are optional,
You need is our goal.

#### 1.2 Features

- ◆ GSM11.11 Standard SIM Card
- Fast reaction capacity
- Broad application domain
- ◆ The superior performance
- ♦ Ideal stable performance

#### 1.3 Applications

- Access Control Terminal
- Terminal identification module
- ◆ Telecommunication
- Handset
- Grasps pos machine
- ◆ Memory dense spoon management special-purpose
- Other Identification recognition





#### 2. TECHNICAL CHARACTERISTIC

#### 2.1 General Characteristics:

| No. | Items             | Standard | Descriptions           |  |
|-----|-------------------|----------|------------------------|--|
| 1   | Dimensions        |          | 15.70LX16.40WX2.60H mm |  |
| 2   | Weight            |          | Approx0.52±0.2g        |  |
| 3   | Card size         | GSM11.11 | 25.0×15.0×0.76mm       |  |
| 4   | Contact principle |          | Friction technology    |  |
| 5   | Mounting System   |          | SMT(without post)      |  |
| 6   | Durability        |          | 5,000 cycles Min.      |  |
|     |                   | Material |                        |  |
| 1   | Insulator         |          | Thermoplastic UL94V-0  |  |
| 2   | Shell             |          | SUS                    |  |
| 3   | Contact           |          | Phosphor bronze        |  |
| 4   | Plating           |          | Gold over nickel       |  |

### 2.2 Electrical Characteristics: according to standard IEC512

#### **Data Contact**

| No. | Items                            | Standard    | Descriptions                              |  |
|-----|----------------------------------|-------------|---|--|
| 1   | Number of Contacts               |             | 6 Pins                                    |  |
| 2   | Contact highly                   |             | 0.70±0.20mm                               |  |
| 3   | Insulation resistance pin to pin | IEC512-2-3a | >1000 MΩ/500 VDC                          |  |
| 4   | Rated voltage                    |             | 50V max                                   |  |
| 5   | Rated current                    |             | 1A max., 10μA min.                        |  |
| 6   | Contact resistance               | IEC512-2-2a | 50 m $\Omega$ typical, 100m $\Omega$ max. |  |
| 7   | Dielectric withstanding voltage  | IEC512-2-4a | 500V AC rms 1min.(sea level)              |  |



#### 2.3 Mechanical Characteristics:

| No. | Items            | Standard | Descriptions |
|-----|------------------|----------|--------------|
| 1   | Contact force    |          | ≥0.5N        |
| 2   | Contact location | GSM11.11 |              |

#### 2.4 Solder ability:

| No. | Items       | Standard    | Descriptions      |
|-----|-------------|-------------|-------------------|
| 1   | Wave        | IEC-68-2-20 | Not applicable.   |
| 2   | Vapor phase |             | 215°C, 30sec.Max  |
| 3   | IR re-flow  |             | 250℃, 5 sec.Max   |
| 4   | Manual      | IEC-68-2-20 | 370°C, 3 sec.Max. |

#### 2.5 Environmental Characteristics

| No. | Items                 | Standard   | Descriptions           |
|-----|-----------------------|------------|------------------------|
| 1   | Operation temperature |            | -40℃ ~+85℃             |
| 2   | Operating humidity    |            | 10% ~ 95%RH            |
| 3   | Storage temperature   |            | -40℃ ~+85℃,            |
| 4   | Storage humidity      |            | 10% ~ 95%RH            |
| 5   | Thermal shock         | IEC68-2-14 | -40°C ~ +85°C,5 cycles |
| 6   | Damp heat             | IEC68-2-3  | 40℃,90%RH,500HR.       |
| 7   | Salt-mist             | IEC68-2-11 | 35℃,5% NaCl, 24HR      |



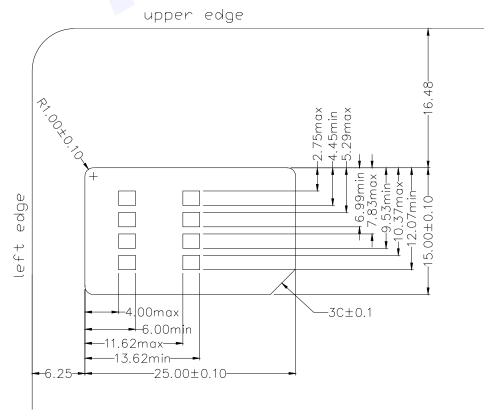
#### 3. INTERFACE

#### 3.1 Signal

Signal interface connections for C742 are shown below.

| Contact No. | Assignment | Description               | Remark |
|-------------|------------|---------------------------|--------|
| C1          | Vcc        | Power Voltage             |        |
| C2          | RST        | Reset Signal              |        |
| C3          | CLK        | Clock Signal              |        |
| C4          | RFU        | Reserve for feature use   |        |
| C5          | GND        | Power and Signal Ground   |        |
| C6          | Vpp        | Programming Voltage       |        |
| C7          | 1/0        | Serial Data input/ output |        |
| C8          | RFU        | Reserve for feature use   |        |

### 3.2 SIM Card Contact Location(GSM11.11)



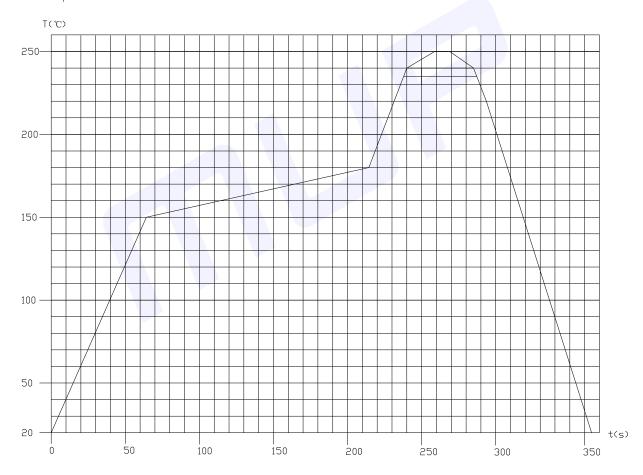
Thickness 0.76±0.08



#### 3.3 Recommended IR Reflow Condition

temperature profile for lead free soldering Sn(3.0-4.0) Ag(0.5-0.9)Cu solder alloy

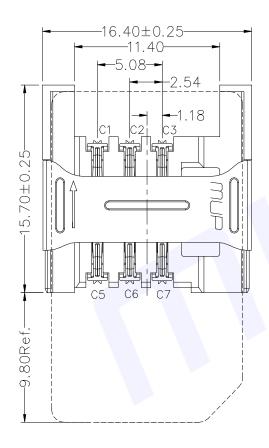
temperature measured on solderable termination

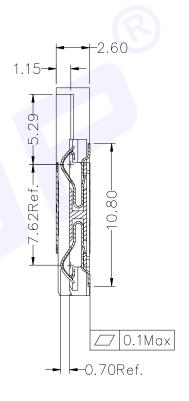


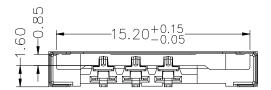
| Parameter                                  | Specification |
|--|---------------|
| Average temperature gradient in preheating | 2.5 °C/s      |
| Preheating temperature                     | 150℃~200℃     |
| Soak time                                  | 120s~180s     |
| Time above 217℃                            | 40s~120s      |
| Peak temperature in reflow                 | 235℃~250℃     |
| Time at peak temperature                   | 10s~50s       |
| Temperature gradient in cooling            | Max-5°C/s     |

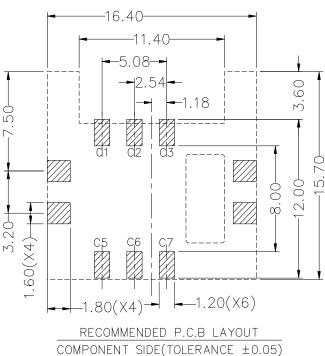


#### 4. **MECHANICAL OUTLINE DRAWING**







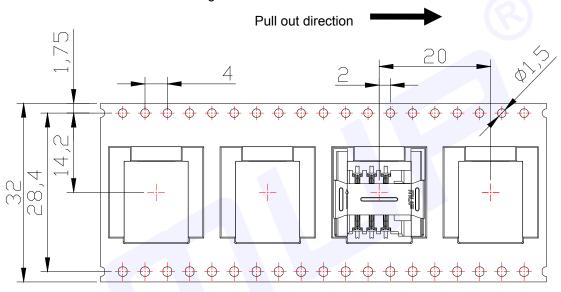


COMPONENT SIDE(TOLERANCE ±0.05)

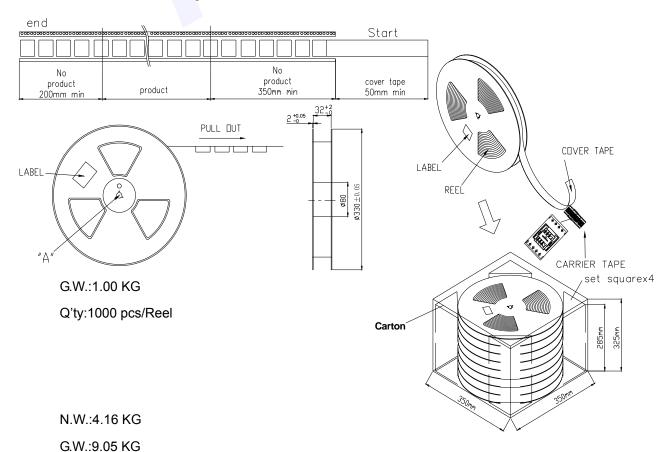


#### 5. PACKING INFORMATION

#### 5.1 Carrier Dimensions Diagram



#### 5.2 Reel Form Diagram



Q'ty: 8000 pcs per Carton (8 Reel set in order)

Meas: 35.00L×35.00W×31.50H cm