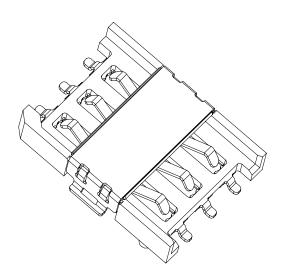


# SAMPLE APPROVAL

Model No.: MUP-C781

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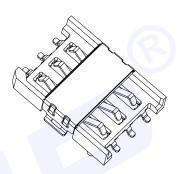
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#### 1. INTRODUCTION

#### 1.1 General

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

- 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		12.30LX10.00WX1.50H mm	
2	Weight		Approx0.30±0.20g	
3	Card size		12.3×8.8×0.67mm	
4	Contact principle		Friction technology	
5	Mounting System		SMT( With Post)	
6	Durability		1500 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		0.50±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 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°C, 5 sec.Max	
4	Manual	IEC-68-2-20	370℃, 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



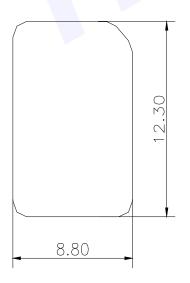
#### 3. INTERFACE

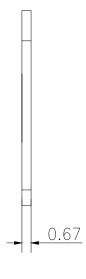
## 3.1 Signal

Signal interface connections for C781 are shown below.

Contact No.	Assignment	Description	Remark
C1	Vcc	Power Voltage	
C2	RST	Reset Signal	
C3	CLK	Clock Signal	
C5	GND	Power and Signal Ground	
C6	Vpp	Programming Voltage	
C7	1/0	Serial Data input/ output	

#### 3.2 Nano SIM Card size



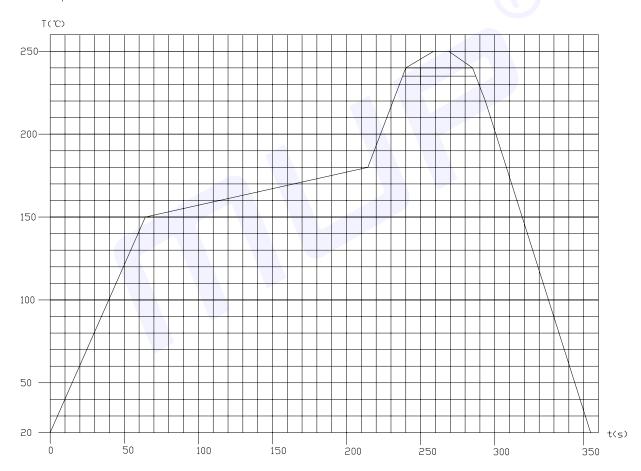




#### 3.3 Recommended IR Reflow Condition

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

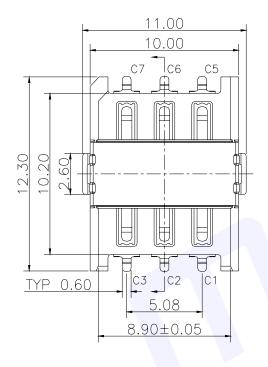
temperature measured on solderable termination

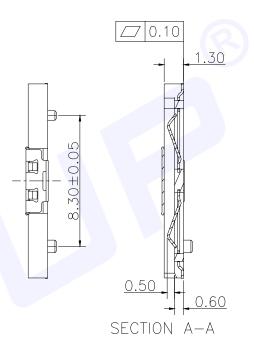


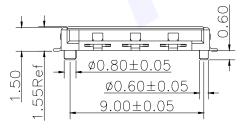
Parameter	Specification
Average temperature gradient in preheating	2.5 °C/s
Preheating temperature	150℃~200℃
Soak time	120s~180s
Time above 217℃	40s~120s
Peak temperature in reflow	235℃~250℃
Time at peak temperature	10s~50s
Temperature gradient in cooling	Max-5℃/s

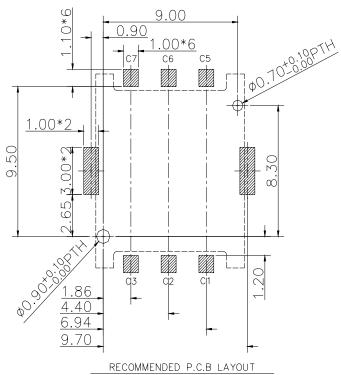


#### 4. MECHANICAL OUTLINE DRAWING







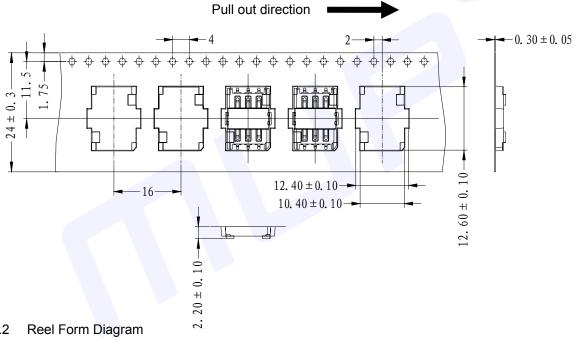




#### 5. **PACKING INFORMATION**

#### 5.1 Tape carrier packing information

#### 5.1.1 Carrier Dimensions Diagram



#### 5.2

