

SAMPLE APPROVAL

Model No:MUP-C790

Revision:1.0

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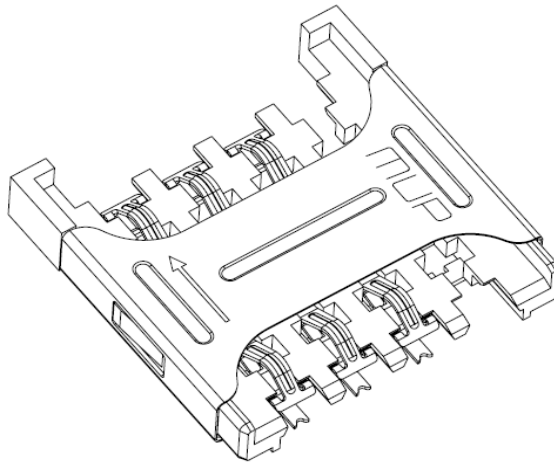


TABLE OF CONTENTS

1 · INTRODUCTION

- General
- Features
- Applications

2 · TECHNICAL CHARACTERISTICS

- 2.1 General Characteristics
- 2.2 Electrical Characteristics
 - 2.2.1 Data Contacts
- 2.3 Mechanical Characteristics
- 2.4 Solder ability
- 2.5 Environmental Characteristics

3 · INTERFACE

- 3.1 Signals
- 3.2 MicroSIM Card Contact Location(ETSI TS 102 221)

4 · MECHANICAL OUTLINE DRAWING

5 · Packing Information

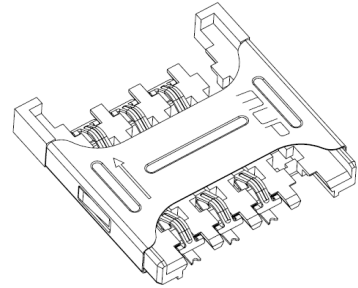
6. Embossed Tape Carrier Diagram

- 6.1 Carrier Dimensions Diagram
- 6.2 Reel Form Diagram

1 · INTRODUCTION

■ General

The C790 is in strict accordance with ETSI TS 102 221 internationally recognized standard. It is designed for high performance and flexibility to give prospective customers a quick and perfect application of the individual devices in their series products. Other kinds of models are optional. Your need is our goal.



■ Features

- Fast reaction capacity.
- Broad application domain.
- Ideal stable performance.
- The superior performance.
- ETSI TS 102 221 Standard Micro SIM Card.(note)

■ Applications

- Access Control Terminals.
- Terminal Identification Module.
- Telecommunication.
- Handset
- Gasps pos machine
- Memory dense spoon management special-purpose
- Other Identification recognition.

2 · TECHNICAL CHARACTERISTICS

2.1 General Characteristics

No	Items	Standard	Descriptions
1	Dimensions		13.40L×13.40W×2.40H mm
2	Weight		Approx.0.50g
3	Card Size	ETSI.TS.102.221	15.00×12.00×0.76mm
4	Contact principle		Friction technology
5	Durability		5000 cycles Min
6	Mounting Type		SMT (without post)
Material:			
1	Insulator		Themoplastic UL94V-0
2	Data Contact		Phosphor bronze
3	Cover		SUS(304)
4	Plating		Gold over Nickel

2.2 Electrical Characteristics : According to Standard IEC512

2.2.1 Data Contacts

No	Items	Standard	Descriptions
1	Number of Contacts		6Pins
2	Contact highly		0.70+0.15/-0.10mm
3	Rated voltage		50V max
4	Rated current		1A max,10μ A min
5	Contact resistance	IEC512-2-2a	50mΩ typical,100 mΩ max
6	Insulation resistance pin to pin	IEC512-2-3a	>1000 MΩ /500 VDC
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 Min.
2	Contact Location	ETSI.TS.102.221	

2.4 Solder ability.

No	Items	Standard	Descriptions
1	Wave	IEC-68-2-20	Not applicable
2	Vaporphase		215°C,30sec.Max
3	IR reflow		250°C,5sec.Max
4	Manual soldering	IEC-68-2-20	Not applicable

2.5 Environmental Characteristics.

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

3 · INTERFACE

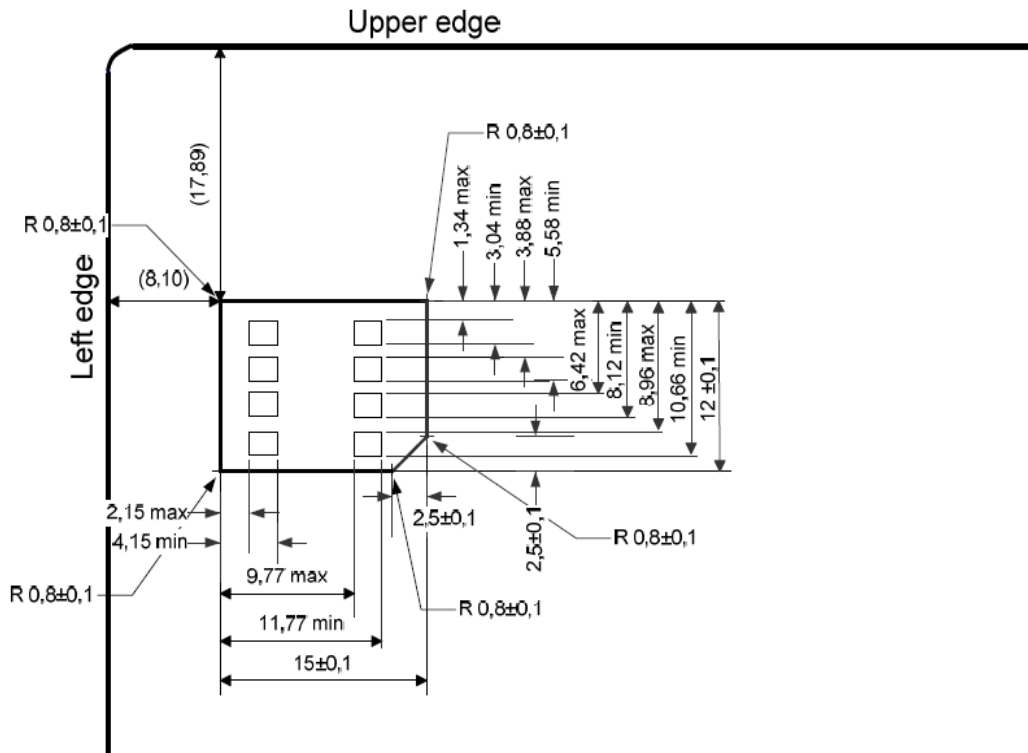
3.1 Signals

Signal interface connections for C790 are shown below.

Contact No	Assignment	Description	Remark
C1	Vcc	Power Voltage	
C2	RST	Reset Signal	
C3	CLK	Clocking Signal	
C4	RFU	Reserve for feature use	
C5	GND	Power and Signal Ground	
C6	Vpp	Programming Voltage	
C7	I/O	Serial Data input/output	
C8	RFU	Reserve for feature use	

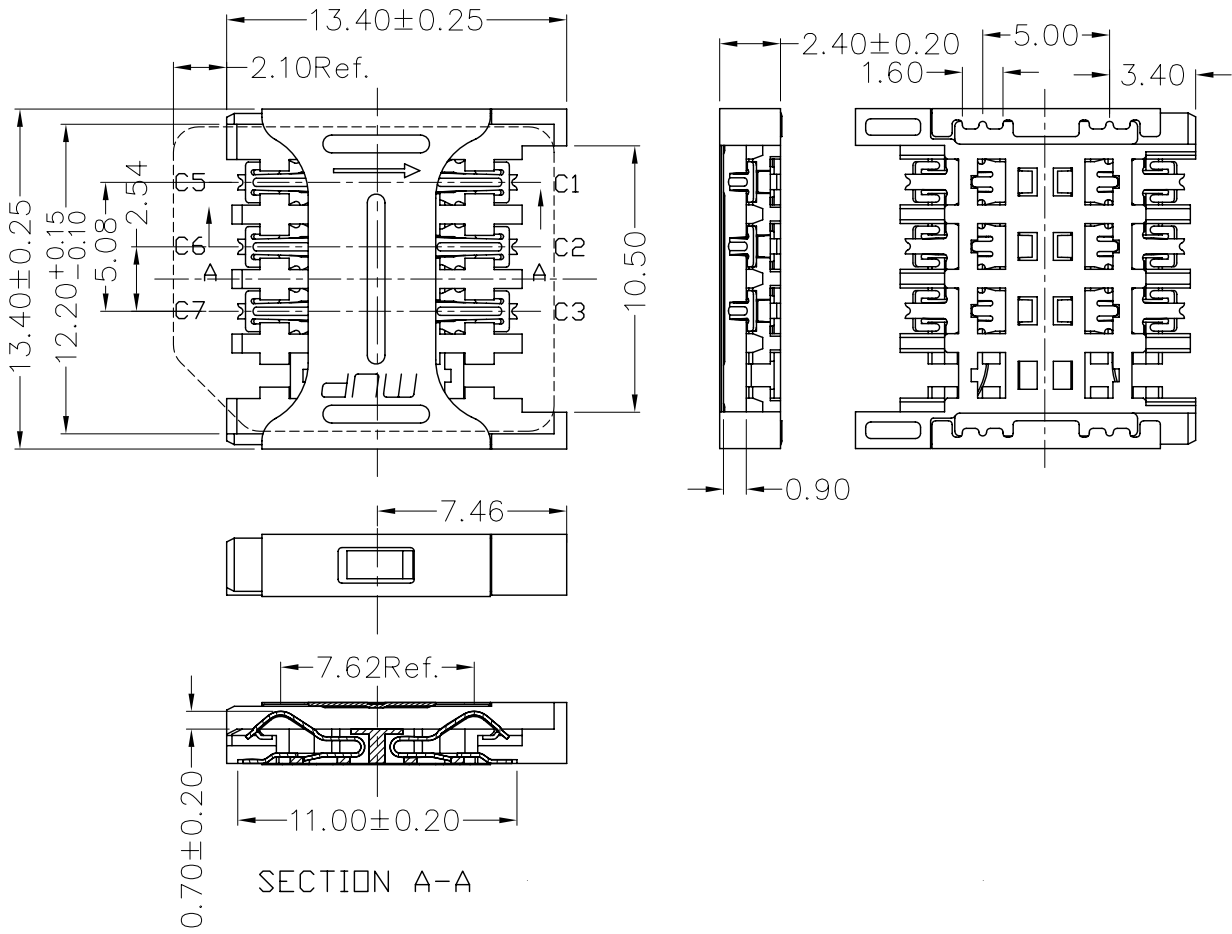
3.2 MicroSIM Card Contact Location(ETSI TS 102 221)

Dimensions in millimeter(mm)



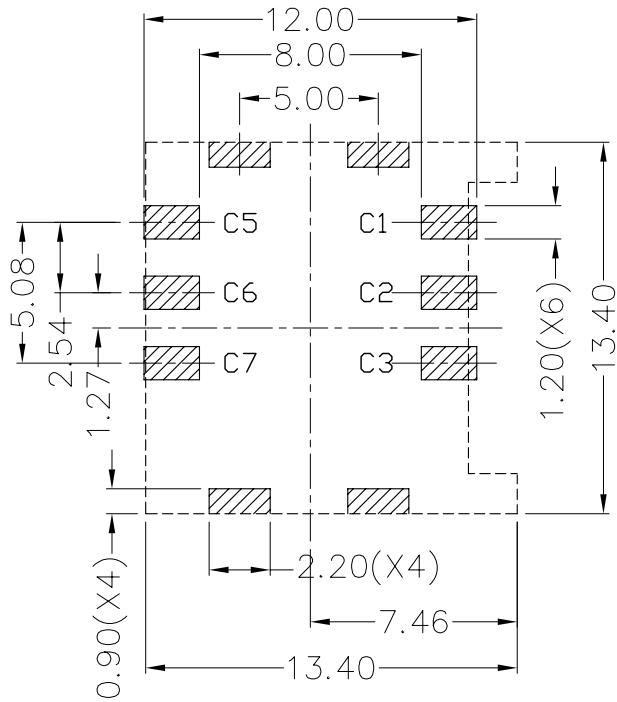
Thickness:0.76±0.08mm

4 MECHANICAL OUTLINE DRAWING



UNT:mm

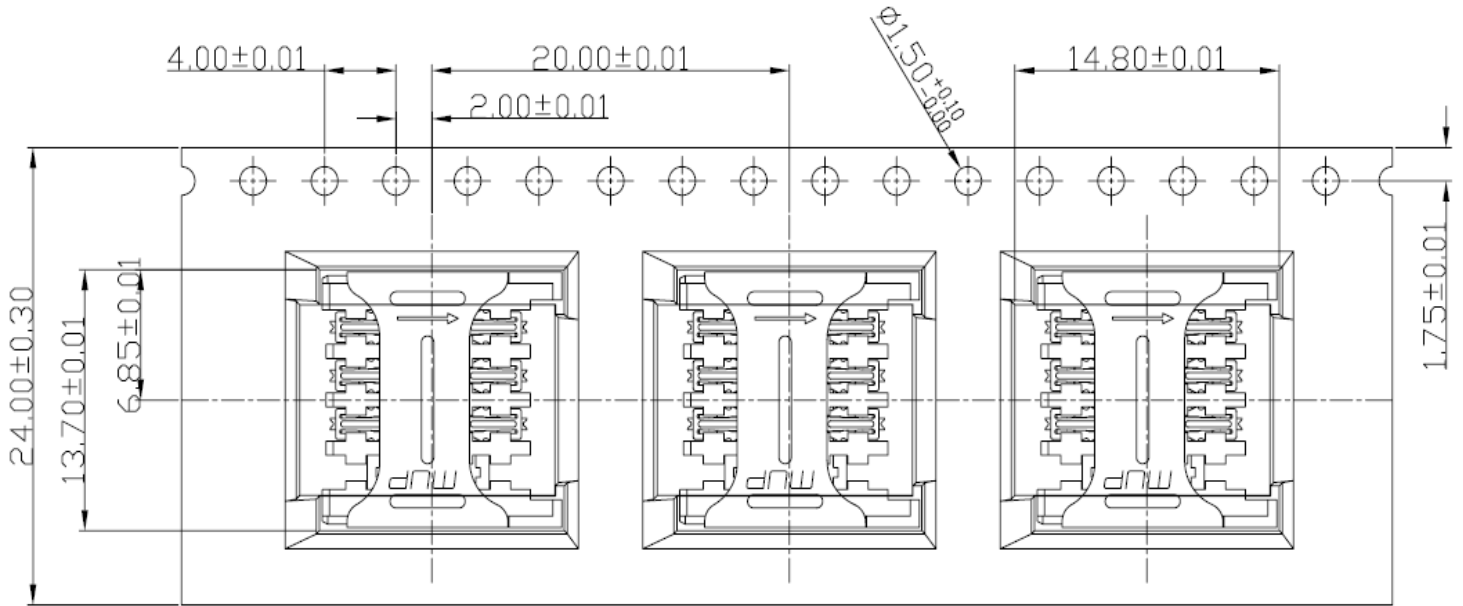
Figure4.1 Mechanical Outline dimension



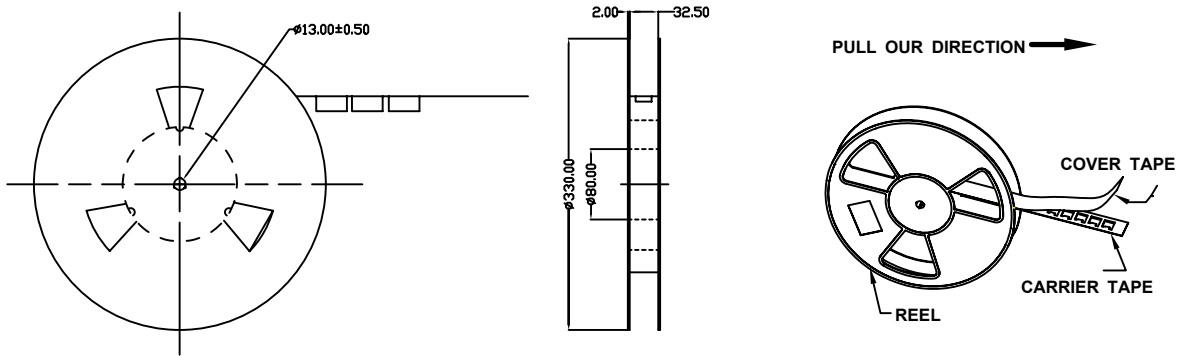
RECOMMENDED P.C.B LAYOUT
COMPONENT SIDE(TOLERANCE ± 0.05)

6. Embossed Tape Carrier Diagram

6.1 Carrier Dimensions Diagram



6.2 Reel Form Diagram



G.W.:0.80 KGS

Q'ty:900 pcs per Reel

G.W.:10.0KGS

Q'ty:9000Pcs per carton(10 Reels set in order)

Meas:35.00L×35.00W×31.50H cm

