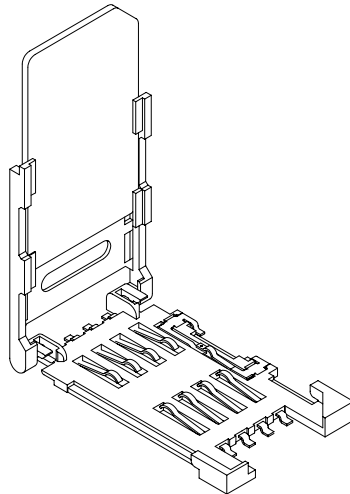


**SPECIFICATION
OF
SIM CARD CONNECTOR**

Model NO.: ICA-567
Revision: 1.3
Issued Date: DEC. 01, 2003



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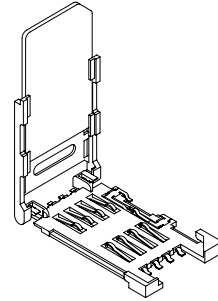
TABLE OF CONTENTS

<u>ARTICLE</u>	<u>PAGE</u>
1 INTRODUCTION	1
General	1
Features	1
Applications	1
2 TECHNICAL CHARACTERISTICS	2
2.1 General Characteristics	2
2.2 Electrical Characteristics	2
2.3 Mechanical Characteristics	2
2.4 Solderability	2
2.5 Environmental Characteristics	3
3 INTERFACE	4
3.1 Signals	4
4 MECHANICAL OUTLINE DRAWING	5
4.1 Mechanical Outline Dimension (6pin)	5
4.2 Reference Dimension for PCB Layout (6pin)	5
4.3 Mechanical Outline Dimension (6pin+ Post)	6
4.4 Reference Dimension for PCB Layout (6pin+Post)	6
4.5 Mechanical Outline Dimension (8pin)	7
4.6 Reference Dimension for PCB Layout (8pin)	7
4.7 Mechanical Outline Dimension (8pin+Post)	8
4.8 Reference Dimension for PCB Layout (8pin+Post)	8
APPENDIX A : PACKING INFORMATION	9
A1 : Carrier Tube	9
A2 : Carrier Tape (Meet EIA-481 standard)	10
APPENDIX B : SIM CARD DIMENSION (According to standard GSM 11.11)	11

1. INTRODUCTION

General :

The ICA-567 is an interface device for GSM11.11 SIM card. It is designed for high performance and flexibility to give prospective customers a quick applications of the individual devices in there product series, and to facilitate selection if the device it decides that are best-suited to intended target applications.



Features :

- ◆ GSM11.11 Standard SIM Card. ^(note)
- ◆ Ultra Slim (H = 2.0MM)
- ◆ Slim Physical Size for Multi-Purpose Application.
- ◆ High Reliability Low-Friction Contact Extension operation Life of Contact.

Applications :

- ◆ Access Control Terminals.
- ◆ Mobile Telecommunications.
- ◆ Palm Top Machines.
- ◆ Terminal Identification module.
- ◆ Other Identification recognition.

Note: All trademarks mentioned herein are the property of their respective companies.

2. TECHNICAL CHARACTERISTICS

2.1 General Characteristics :

Items	Standard	Descriptions
Dimensions		29.7L x 17.2W x 2.0H mm
Weight		Approx. 0.75 g
Card size	GSM 11.11	25.0 x 15.0 x 0.76 mm
Contact principle		Friction technology
Operating position		Shaft up / Down / Horizontal
Mounting System		SMT (post optional)
Durability		10,000 cycles min.

2.2 Electrical Characteristics : According to Standard IEC512

Items	Standard	Descriptions
Number of data contacts (Optional)	GSM 11.11	6, 8 pins
Contact resistance	IEC512-2-2a	50 m Ω typical, 100 m Ω max.
Insulation resistance Pin to pin	IEC512-2-3a	> 1000 M Ω / 500 VDC
Rated voltage		< 50 V
Rated current		1 A max. , 10 μ A min.
Dielectric withstanding voltage	IEC512-2-4a	500 VAC RMS 1min. (sea level)
Card Present Switch	IEC512-2-2a	50 m Ω typical, 100 m Ω max.
Switch type		Blade, Normally open
Insulation resistance Pin to pin	IEC512-2-3a	> 1000 M Ω / 500 VDC
Rated voltage		< 50 V
Rated current		1 A max. , 10 μ A min.
Dielectric withstanding voltage	IEC512-2-4a	500 VAC RMS 1min. (sea level)

2.3 Mechanical Characteristics :

Items	Standard	Descriptions
Data Contacts		
Contact force		0.4 ~ 0.8N
Contact location	GSM 11.11	
Material		Phosphor bronze
Plating		Gold over Nickel
Card Present Switch		
Material		Phosphor bronze
Plating		Gold over Nickel
Insulation material		Thermoplastic, UL 94V-0

2.4 Solderability : According to Standard IEC68

Items	Standard	Descriptions
Wave		Not applicable
Vaporphase		215°C, 30 sec. Max
IR reflow		230°C, 15 sec. Max.
Manual	IEC68-2-20	360°C, 3 sec. Max.

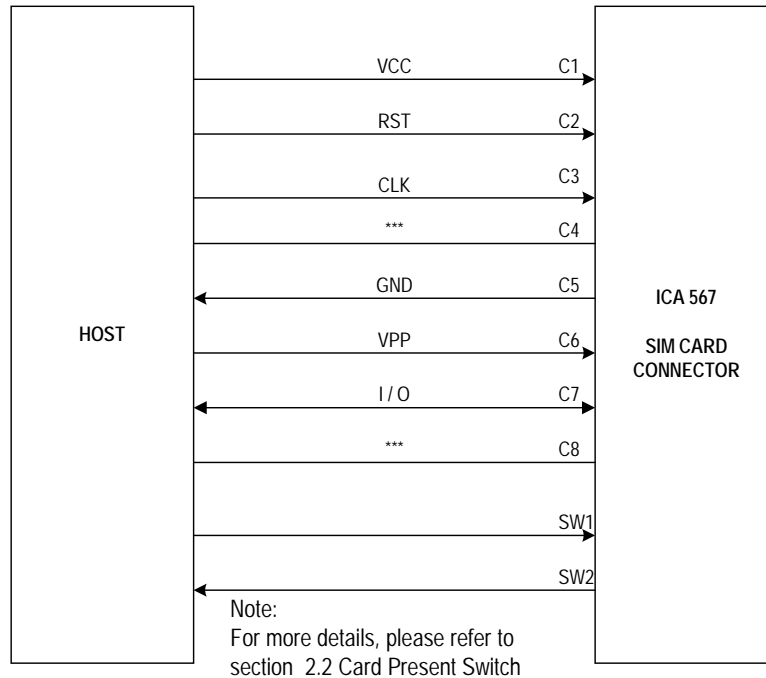
2.5 Environmental Characteristics : According to Standard IEC68

Items	Standard	Descriptions
Operating temperature		- 40°C ~ + 85°C
Operating humidity		10 % ~ 95 % RH
Storage temperature		- 40°C ~ + 85°C
Storage humidity		10 % ~ 95 % RH
Thermal shock	IEC68-2-14	- 40°C ~ + 85°C, 5 cycles
Damp Heat	IEC68-2-3	40°C, 90 % RH, 500HR.
Random vibration	See Note 1	No discontinuities of 1us or longer
Mechanical shock	See Note 2	No discontinuities of 1us or longer
Salt-mist	IEC68-2-11	35°C, 5%, NaCl , 48HR.

Note 1. Subject samples mated to GSM 11.11 SIM Cards to 10-500 HZ. 20 minutes in each of 3 mutually perpendicular planes.

Note 2. Subject mated samples to 10G's half-sine shock pulse of 11 ms duration. 3 shock in each direction applied along 3 mutually perpendicular planes, expect 4 G's shock pulses in direction of card withdrawal, 18 total shock.

3. INTERFACE

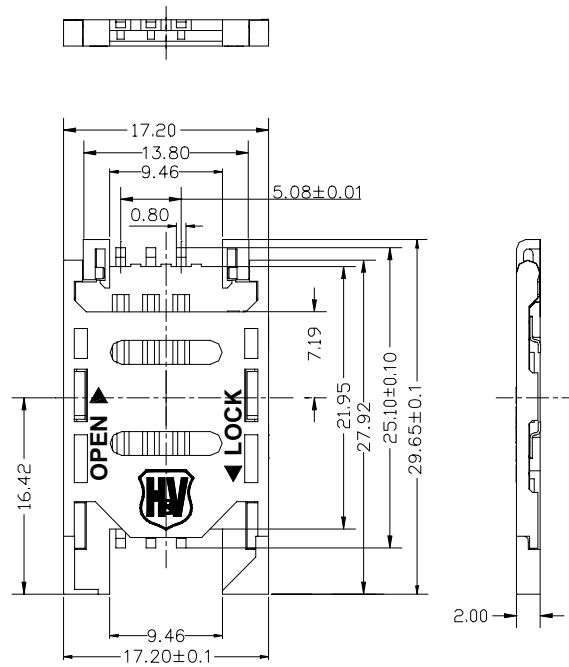


3.1 Signals

Signal interface connections for ICA-567 are shown below.

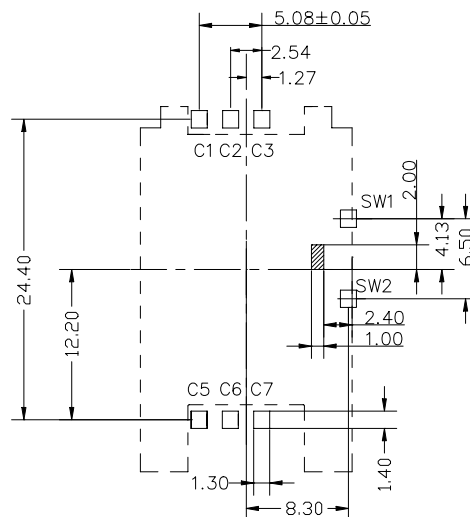
Contact No.	Assignment	Description	Remark
C1	Vcc	Power Voltage	
C2	RST	Reset Signal	
C3	CLK	Clocking Signal	
C4	***	Reserved for feature use	
C5	GND	Power and Signal Ground	
C6	Vpp	Programming Voltage	
C7	I/O	Serial Data input/output	
C8	***	Reserved for feature use	
SW1		Card Present Switch contact (Stationary)	
SW2		Card Present Switch contact (Movable)	

4. MECHANICAL OUTLINE DRAWING



UNIT: mm, TOLERANCES : ±0.10mm

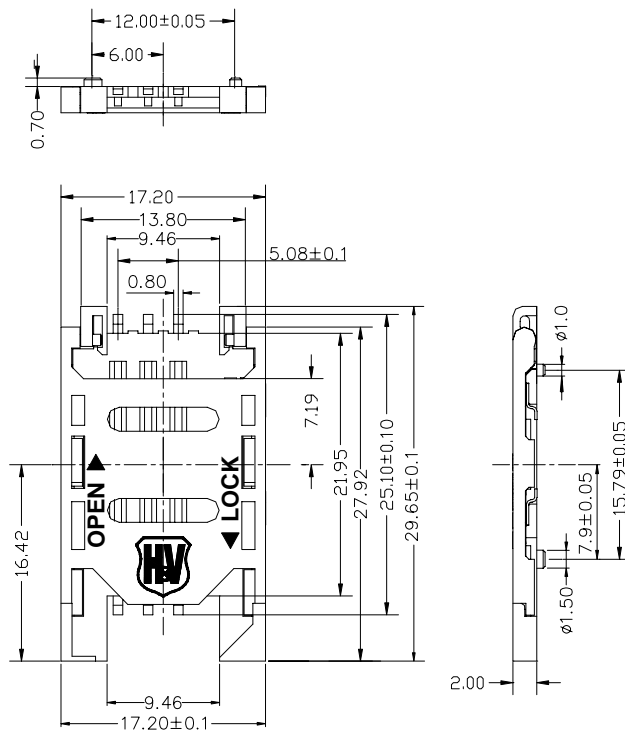
Figure 4.1 Mechanical outline dimension (6pin)



Hatched area is pattern prohibition area

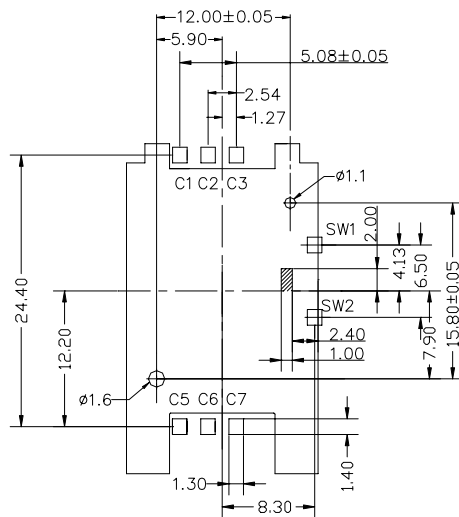
UNIT: mm, TOLERANCES : ±0.10mm

Figure 4.2 Reference dimension for PCB layout (6pin)



UNIT: mm, TOLERANCES : ±0.10mm

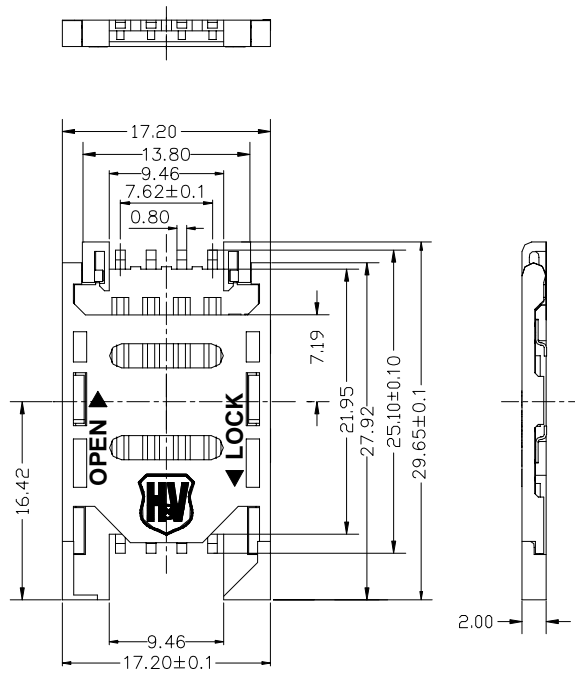
Figure 4.3 Mechanical outline dimension (6pin+post)



Hatched area is pattern prohibition area

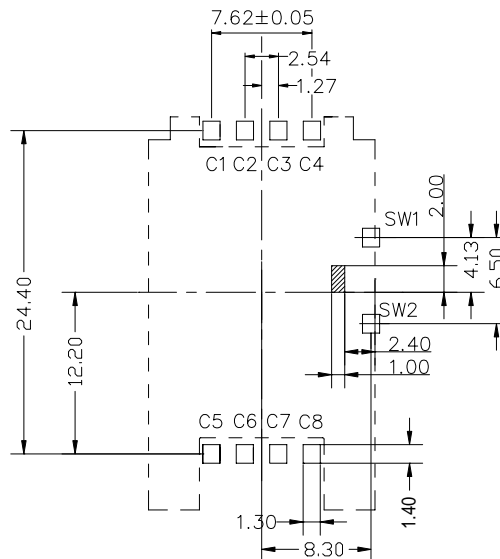
UNIT: mm, TOLERANCES : ±0.10mm

Figure 4.4 Reference dimension for PCB layout (6pin+post)



UNIT: mm, TOLERANCES : ±0.10mm

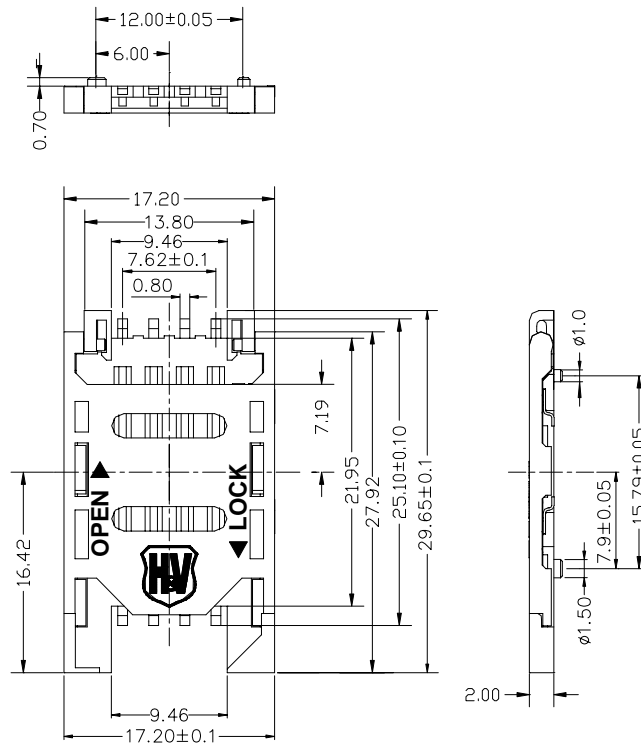
Figure 4.5 Mechanical outline dimension (8pin)



Hatched area is pattern prohibition area

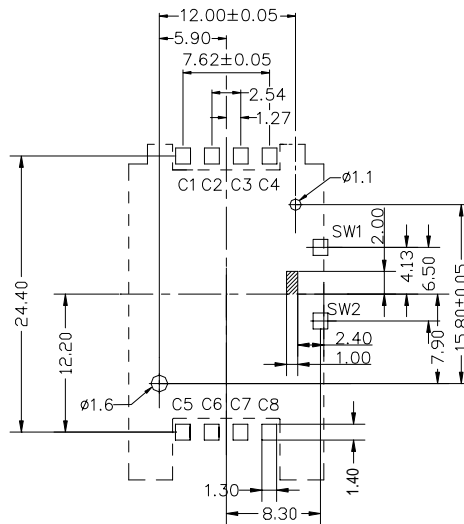
UNIT: mm, TOLERANCES : ±0.10mm

Figure 4.6 Reference dimension for PCB layout (8pin)



UNIT: mm, TOLERANCES : ±0.10mm

Figure 4.7 Mechanical outline dimension (8pin+post)



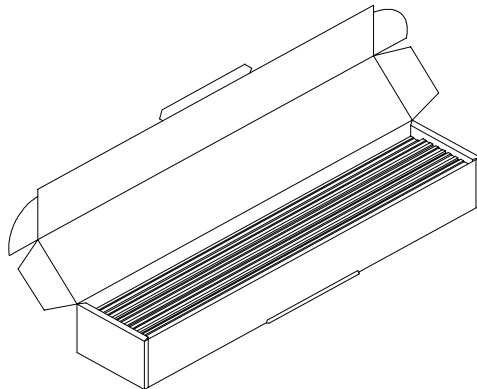
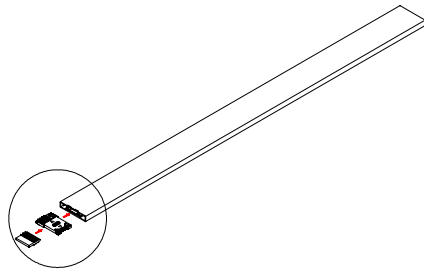
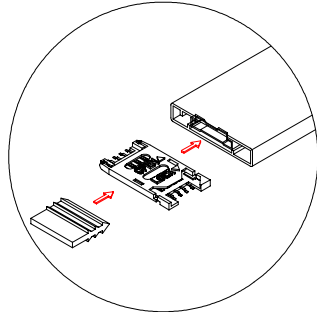
Hatched area is pattern prohibition area

UNIT: mm, TOLERANCES : ±0.10mm

Figure 4.8 Reference dimension for PCB layout (8pin+post)

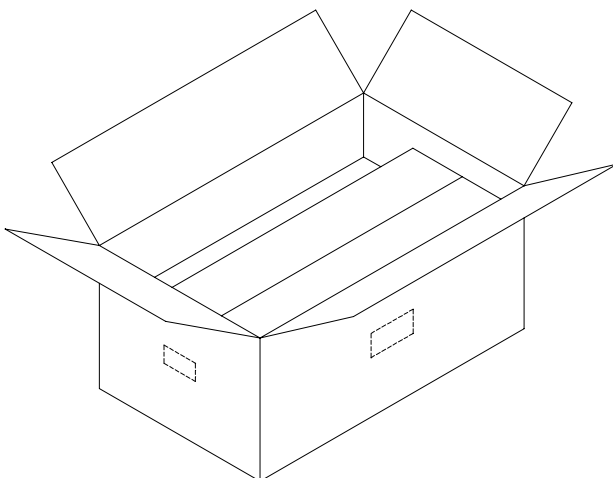
APPENDIX A : PACKING INFORMATION

A1 : Carrier Tube



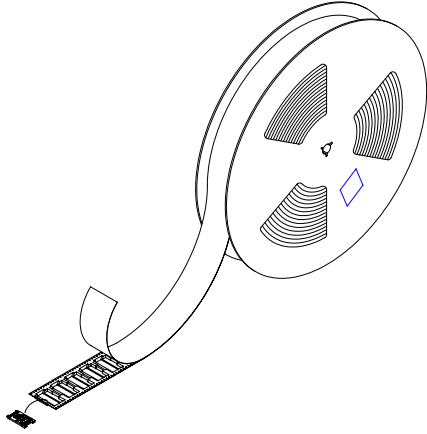
Q'ty : 25 PCs per tube
Meas. : 46.0Lx3.4Wx0.7H CM

N.W.: 1.0 KGS
G.W.: 1.1 KGS
Q'ty: 475 PCs per box
(19 tubes set in order)
Meas.: 49.0Lx9.4Wx6.1H CM

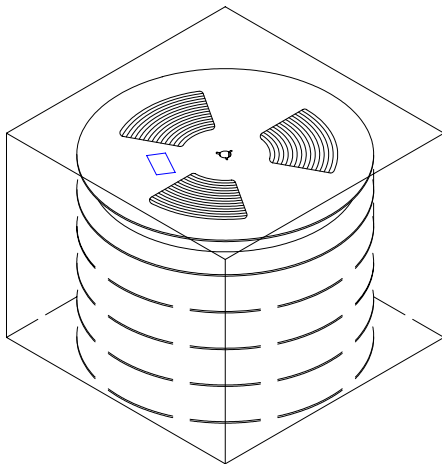


N.W.: 9.5 KGS
G.W.: 10.5 KGS
Q'ty: 4,275 PCs per carton
(9 boxes set in order)
Meas.: 51.0Lx31.0Wx21.0H CM

A2 : Carrier Tape (Meet Standard EIA-481)



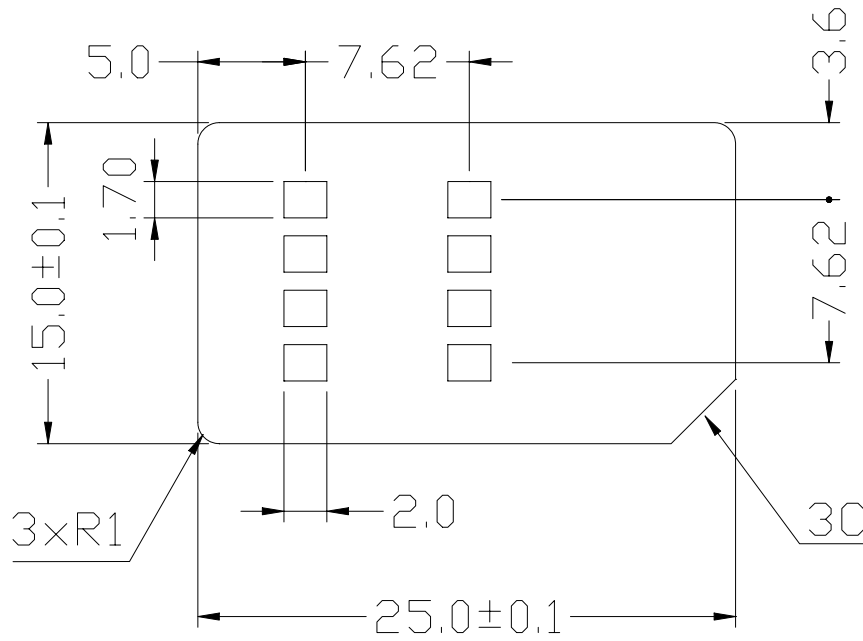
G.W.: 1.05 KGS
Q'ty: 600 PCs per reel
Meas.: dia. 33 CM, W 4.4 CM



N.W.: 6.5 KGS
G.W.: 7.5 KGS
Q'ty: 3,600 PCs per carton
(6 reels set in order)
Meas.: 35.0Lx35.0Wx32.5H CM

APPENDIX B : SIM CARD DIMENSION (According to Standard GSM 11.11)

Dimensions in millimeters (mm)

Thickness: 0.76 ± 0.08 mm