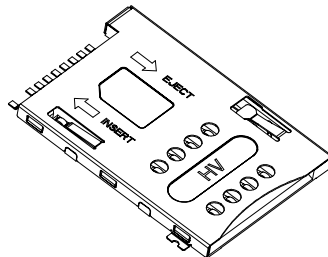


**SPECIFICATION  
OF  
SIM CARD ACCEPTOR**

Model NO.: ICA-568 Type1  
Revision: 0.91  
Issue Date: OCT. 25, 2007



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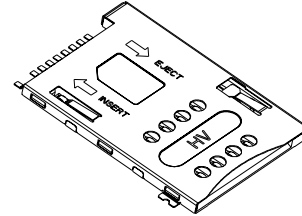
TABLE OF CONTENTS

<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.....	3
2.5 Environmental Characteristics.....	3
3 ORDERING CODE.....	3
4 INTERFACE.....	4
4.1 Signals.....	4
5 MECHANICAL OUTLINE DRAWING.....	5
5.1 Mechanical Outline Dimension (6 pins).....	5
5.2 Reference Dimension for PCB Layout (6 pins).....	5
5.3 Mechanical Outline Dimension (8 pins).....	6
5.4 Reference Dimension for PCB Layout (8 pins).....	6
APPENDIX A: PACKING INFORMATION.....	7
A1: Carrier Tape (Meet EIA-481 standard).....	7
APPENDIX B: SIM CARD DIMENSION (According to standard GSM 11.11).....	8

## 1. INTRODUCTION

### General:

The ICA-568 is an interface device for GSM 11.11 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:

- ◆ GSM 11.11 Standard SIM Card. <sup>(note)</sup>
- ◆ Ultra Slim ( H = 1.9 mm )
- ◆ Slim Physical Size for Multi-Purpose Application.
- ◆ High Reliability Low-Friction Contact Extension operation Life of Contact.
- ◆ Push Push Type.
- ◆ NDS Compliant.
- ◆ RoHS Directive 2002/95/EC Compliant.

### 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	Description
Dimension		27.55L x 18.70W x 1.90H mm
Weight		Approx. 1.38 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 Type (without post)
Function		Push Push Type
Durability		5,000 cycles min.

### 2.2 Electrical Characteristics: According to Standard IEC512

Items	Standard	Description
2.2.1 Data Contacts		
Number of contacts		6, 8 pins (optional)
Contact resistance	IEC512-2-2a	50 mΩ typical, 100 mΩ max.
Insulation resistance Pin to pin	IEC512-2-3a	> 1000 MΩ / 500 V DC
Rated voltage		< 50 V
Rated current		1 A max.
Dielectric withstanding voltage	IEC512-2-4a	500 V AC rms 1 min. (sea level)
2.2.2 Card Detector & Switch		
Switch type		Blade
Operation		Normally Close
Contact resistance	IEC512-2-2a	50 mΩ typical, 100 mΩ max.
Insulation resistance Pin to pin	IEC512-2-3a	> 1000 MΩ / 500 V DC
Rated voltage		< 50 V
Rated current		1 A max.
Dielectric withstanding voltage	IEC512-2-4a	500 V AC rms 1 min. (sea level)

### 2.3 Mechanical Characteristics:

Items	Standard	Description
Contact force	SIM Card 0.76mm	0.2N ~ 0.6N
Card insertion force		3N ~ 10N
Card withdrawal force		3N ~ 10N
Contact location	GSM 11.11	
Data Contacts		
Material		Phosphor bronze
Plating		Gold over Nickel
Card Present Switch		

Material		Phosphor bronze
Plating		Gold over Nickel
Insulation material		Thermoplastic, UL 94V-0
Cover material		Stainless Steel

#### 2.4 Solderability: According to Standard IEC68

Items	Standard	Description
Wave		Not applicable
IR reflow		260°C, 10 sec. Max.
Manual soldering	IEC68-2-20	360°C, 3 sec. Max.

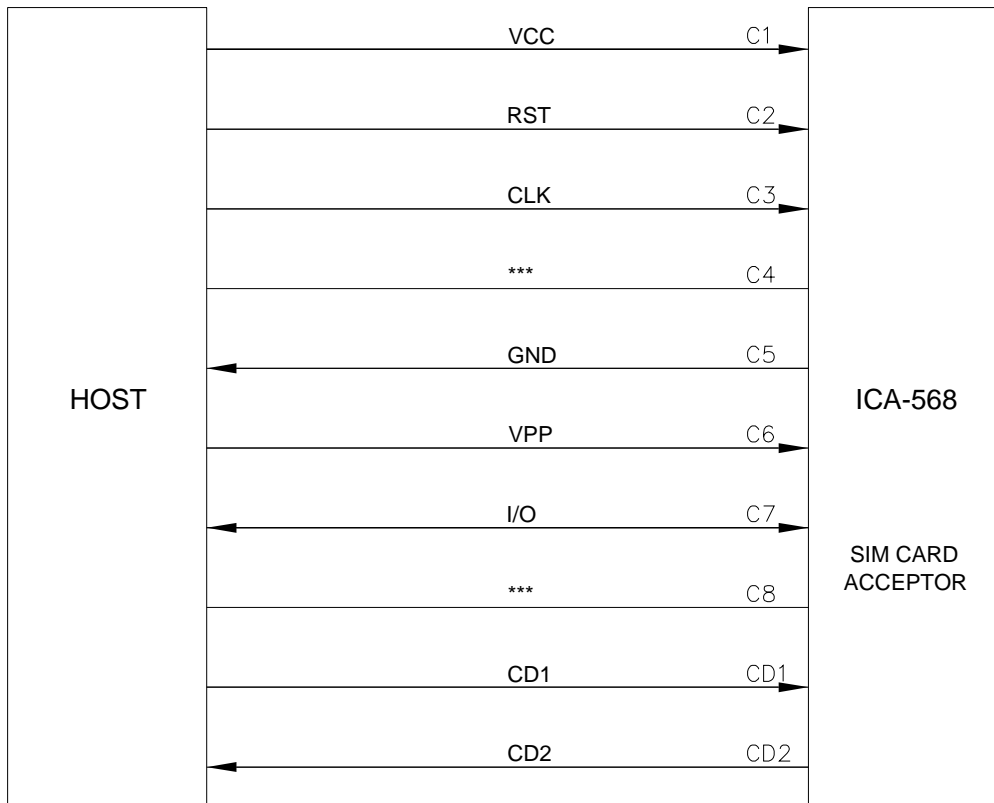
#### 2.5 Environmental Characteristics: According to Standard IEC68

Items	Standard	Description
Operating temperature		- 40°C ~ + 85°C
Operating humidity		10 % ~ 95 % RH
Storage temperature		- 40°C ~ + 85°C
Storage humidity		10 % ~ 95 % RH

### 3. ORDERING CODE

Part Number	Number of Contacts	PCB Locating Pegs (Post)	Logo
5680619-SICR01	6	No	Yes
5680619-SICR00	6	No	No
5680819-SICR01	8	No	Yes
5680819-SICR00	8	No	No

## 4. INTERFACE

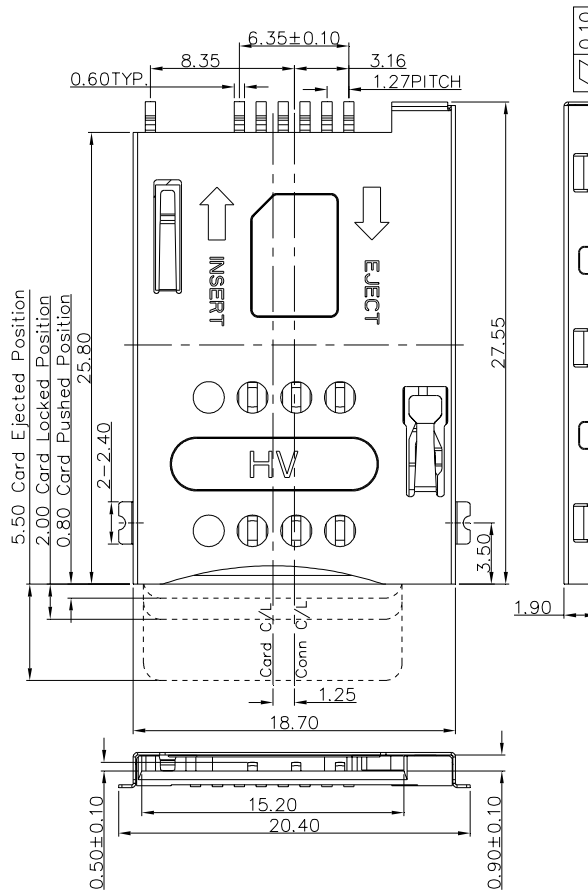


### 4.1 Signals

Signal interface connections for ICA-568 are shown below.

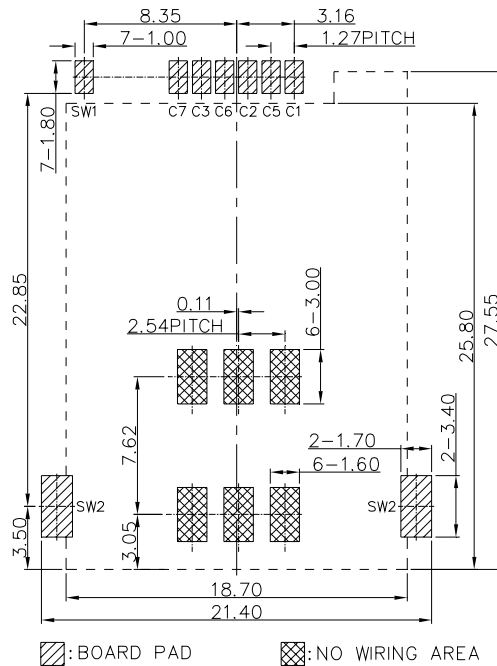
Contact No.	Assignment	Description	Remark
C1	VCC	Power Voltage	
C2	RST	Reset Signal	
C3	CLK	Clocking Signal	
C4	***	Reserved for feature use	
C5	GND	Power and Signal Ground	
C6	VPP	Programming Voltage	
C7	I/O	Serial Data input/output	
C8	***	Reserved for feature use	
CD1	CD1	Card Present Switch contact (Stationary)	
CD2	CD2	Card Present Switch contact (Movable)	

5. MECHANICAL OUTLINE DRAWING



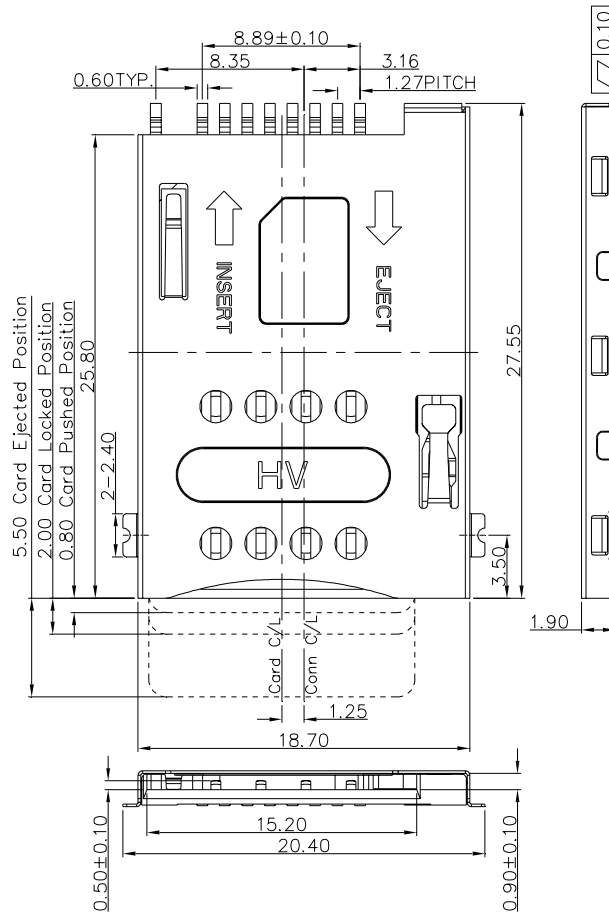
Unit: mm; Tolerances: ±0.15 mm

Figure 5.1 Mechanical outline dimension (6 pins)



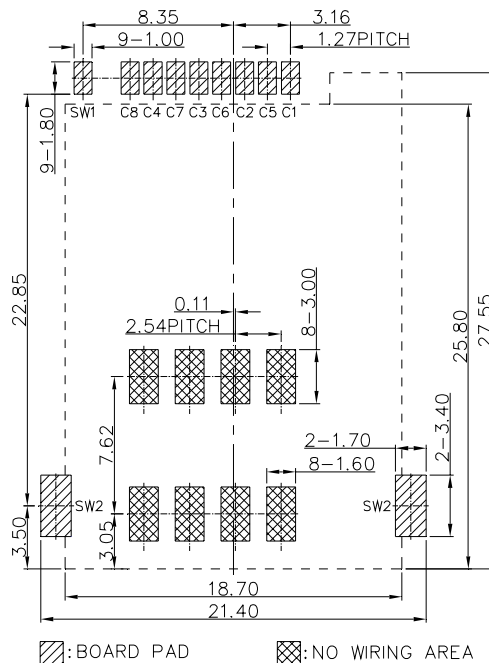
Unit: mm; Tolerances: ±0.05 mm

Figure 5.2 Reference dimension for PCB layout (6 pins)



Unit: mm; Tolerances:  $\pm 0.15$  mm

Figure 5.3 Mechanical outline dimension (8 pins)



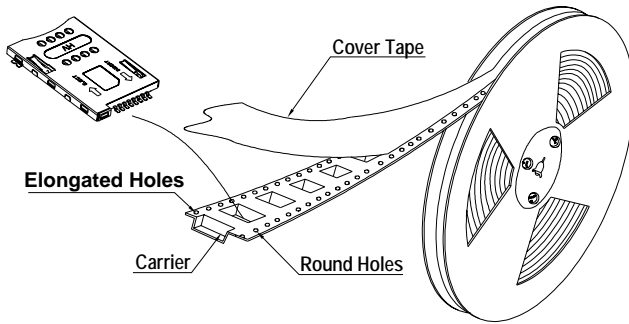
Unit: mm; Tolerances:  $\pm 0.05$  mm

Figure 5.4 Reference dimension for PCB layout (8 pins)

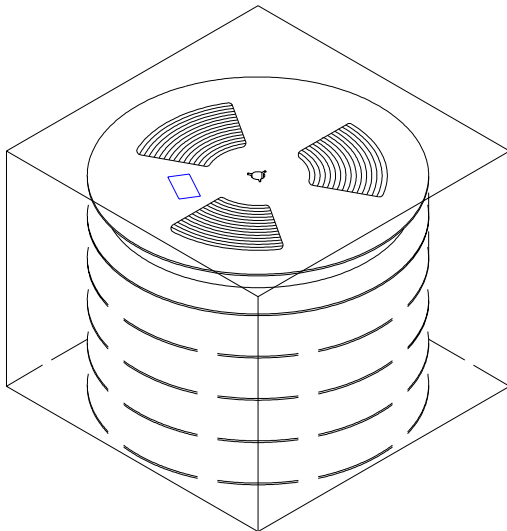


APPENDIX A: PACKING INFORMATION

A1: Carrier Tape (Meet Standard EIA-481)



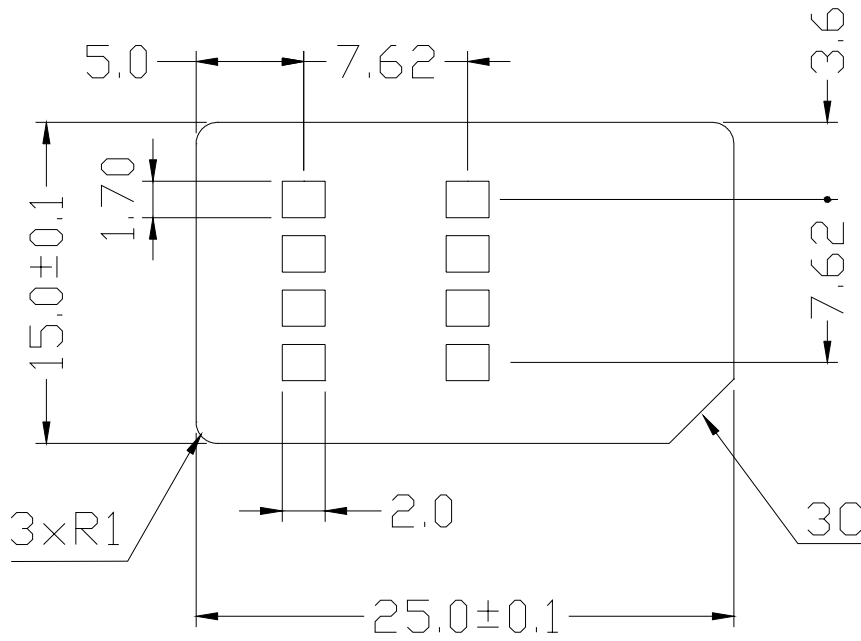
N.W.: 0.83 KGS  
G.W.: 1.38 KGS  
Q'ty: 600 PCs per reel  
Meas.: dia. 33 CM, W 4.4 CM



N.W.: 8.28 KGS  
G.W.: 9.48 KGS  
Q'ty: 3,600 PCs per carton  
(6 reels set in order)  
Meas.: 35.0L x 35.0W x 32.5H CM

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

Dimensions in millimeters (mm)



Thickness: 0.76 +/- 0.08 mm