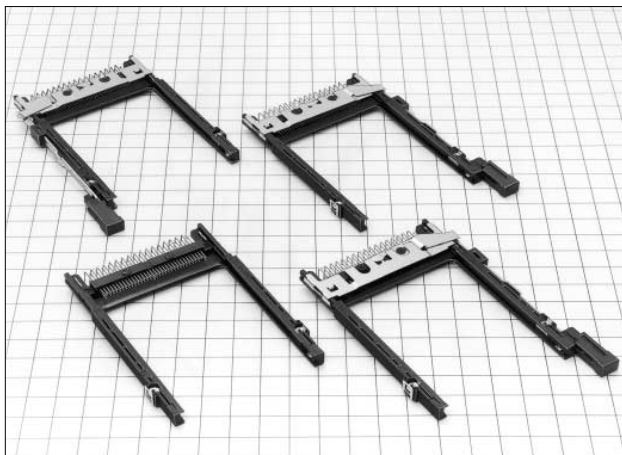


# Single Slot Connector for PC Card Type III

## IC7 Series



### ■Features

#### 1. PC Card Standard compliant:

Type I, type II and type III cards are covered. Terminals for grounding are provided.

#### 2. Space saving and Lightweight

Connector height is minimized to 5.4mm, and weight is 12.5g.

#### 3. Eject mechanism

Hirose's unique ejection mechanism provides an higher degree of card ejection over existing products.

### ■Product Specifications

|        |                |         |                                               |                            |                           |                              |
|--------|----------------|---------|-----------------------------------------------|----------------------------|---------------------------|------------------------------|
| Rating | Current rating | 0.5 A   | Operating temperature range                   | -55°C to +85°C (Note 1)    | Storage temperature range | -40°C to +70°C (Note 2)      |
|        | Voltage rating | 125V AC | Operating humidity range<br>(No condensation) | Relative humidity 95% max. | Storage humidity range    | Relative humidity 40% to 70% |

| Item                                  | Specification                                               | Conditions                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1. Insulation resistance              | 1000 MΩ min.                                                | 500 V DC                                                                                                                         |
| 2. Withstanding voltage               | No flashover or insulation breakdown                        | 500 V AC / 1 minute                                                                                                              |
| 3. Contact resistance                 | 40 mΩ max. (Initial value)                                  | 1mA                                                                                                                              |
| 4. Vibration                          | No electrical discontinuity of 100ns or more                | Frequency: 10 to 2000 Hz, full amplitude of 1.52 mm or acceleration of 147m/s <sup>2</sup> , 4 hours in each of the 3 directions |
| 5. Humidity (Steady state)            | Insulation resistance: 100 MΩ min.                          | 96 hours at temperature of 40°C and humidity of 90% to 95%                                                                       |
| 6. Temperature cycle                  | No damage, cracks, or parts looseness                       | Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C<br>Time: 30 → 5 max. → 30 → 5 max. (Minutes) 5 cycles               |
| 7. Durability (insertion/ withdrawal) | Contact resistance: 20 mΩ max. from initial value           | 10000 cycles at 400 to 600 cycles per hour                                                                                       |
| 8. Resistance to soldering heat       | No deformation of the insulator parts affecting performance | Manual soldering: 300°C for 3 seconds                                                                                            |

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation.

### ■Material

| Part                |                         | Material        | Finish                     | Remarks |
|---------------------|-------------------------|-----------------|----------------------------|---------|
| Insulator           | Connector               | PBT             | Color: Black               | UL94V-0 |
|                     | Eject Button            | PA              | Color: Black               | UL94V-0 |
| Contact             | Connector               | Brass           | Contact area: gold plating | —       |
|                     |                         |                 | Lead area: Solder plating  | —       |
|                     | Terminals for grounding | Phosphor bronze | Gold plating               | —       |
| Eject metal fitting |                         | Stainless steel | —                          | —       |
| Locking pins        |                         | Phosphor bronze | Solder plating             | —       |
| Nuts                |                         | Steel           | Nickel plating             | —       |

## ■ Ordering Information

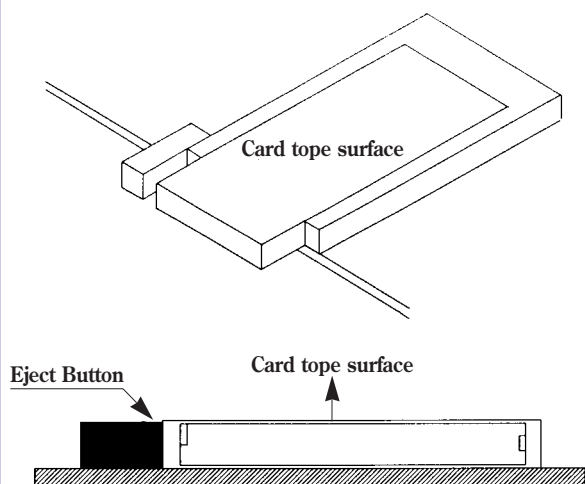
IC7   -   68   PDR   -   1.27   DS   -   EJR  
①                      ②                      ③                      ④                      ⑤                      ⑥

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| ① | Series Name : IC7                                                                                      |
| ② | Number of contacts : 68                                                                                |
| ③ | Board mounting type<br>PD : Standard<br>PDR : Reverse                                                  |
| ④ | Contact pitch : 1.27mm                                                                                 |
| ⑤ | Board Mounting Type<br>DS : Right angle Dip                                                            |
| ⑥ | Ejector type<br>No letter: Without Eject Button<br>EJR : Right Eject Button<br>EJL : Left Eject Button |

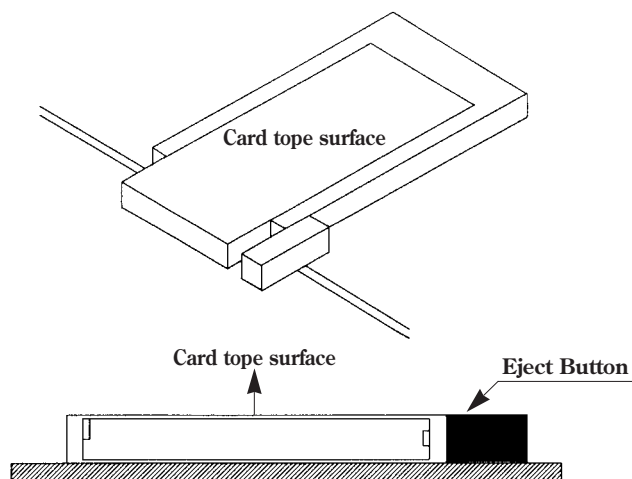
## ◆ Examples of Connector Mounting

### Standard type

● IC7-68PD-1.27DS-EJL

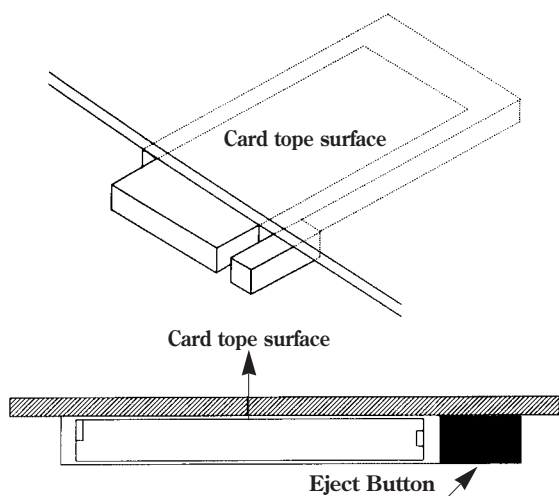


● IC7-68PD-1.27DS-EJR

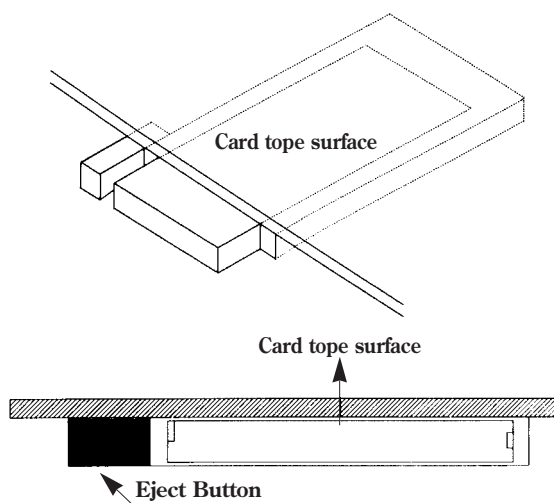


### Reverse type

● IC7-68PDR-1.27DS-EJL



● IC7-68PDR-1.27DS-EJR



## Single Slot Connector

### Right Eject Button

### Standard type, Reverse type

#### Standard

IC7-68PD-1.27DS-EJR  
CL640-0401-0

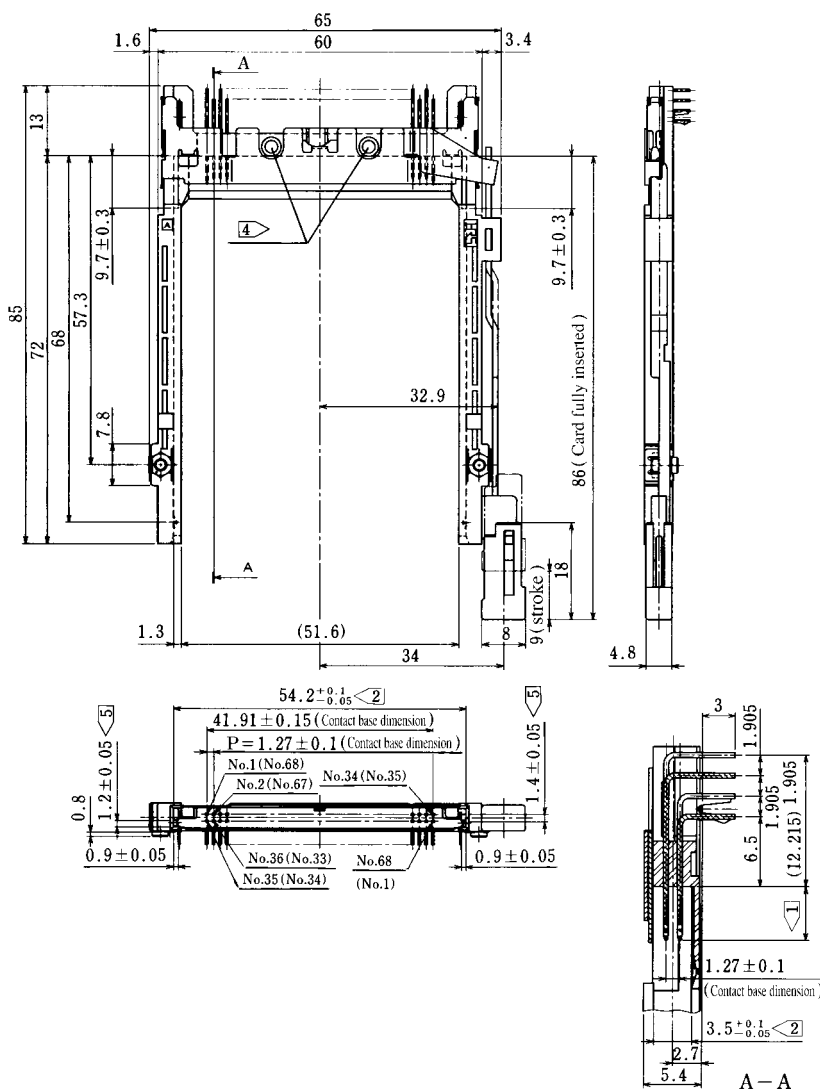
#### Reverse ④

IC7-68PDR-1.27DS-EJR  
CL640-0402-2



Table 1 ①

| Contact No.           | Contact Length |
|-----------------------|----------------|
| 1, 17, 34, 35, 51, 68 | 5.0 ±0.1       |
| 36, 67                | 3.5 ±0.1       |
| Other than above      | 4.25±0.1       |



Note ① The contacts length is indicated in Table 1.

② The applicable range of indicated dimensions ( $54.2^{+0.1}_{-0.05}$ ,  $3.5^{+0.1}_{-0.05}$ ) are taken as 10mm from the bottom.

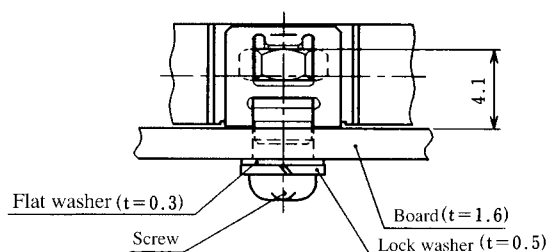
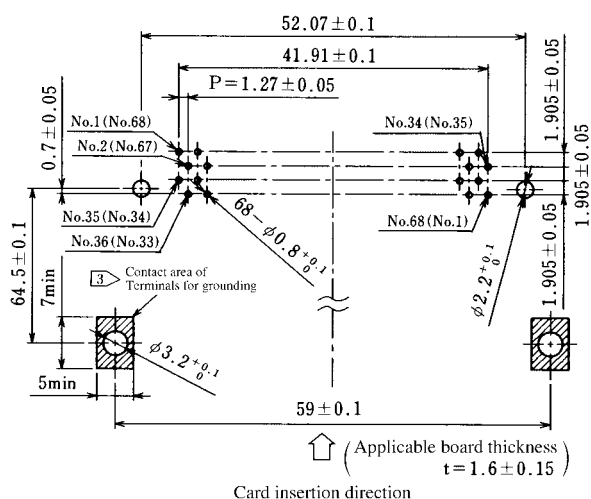
③ The terminal for grounding should be securely fastened from the bottom surface of the board using a screw (M2×0.4), flat washer and lock washer.

④ Pay attention to the Contact No. since the reverse type is marked "R". See the numbers in parentheses ( ) for the Contact No. of the reverse type.

⑤ The guide groove dimensions of the reverse type are left-right reversed.

## PCB mounting pattern

## Example of Screw Fastening (Recommendation)



## Single Slot Connector

### Left Eject Button

### Standard type, Reverse type

#### Standard

IC7-68PD-1.27DS-EJL  
CL640-0403-5

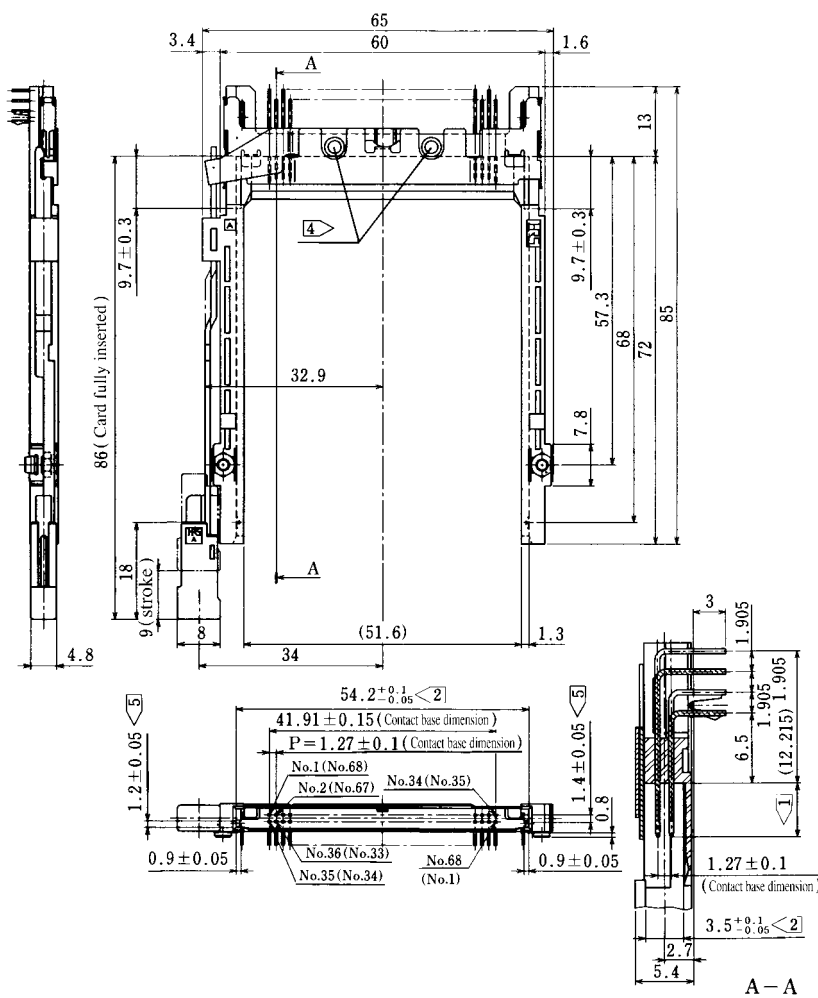
#### Reverse ④

IC7-68PDR-1.27DS-EJL  
CL640-0404-8



Table 1 ①

| Contact No.           | Contact Length |
|-----------------------|----------------|
| 1, 17, 34, 35, 51, 68 | 5.0 ±0.1       |
| 36, 67                | 3.5 ±0.1       |
| Other than above      | 4.25±0.1       |



Note ① The contacts length is indicated in Table 1.

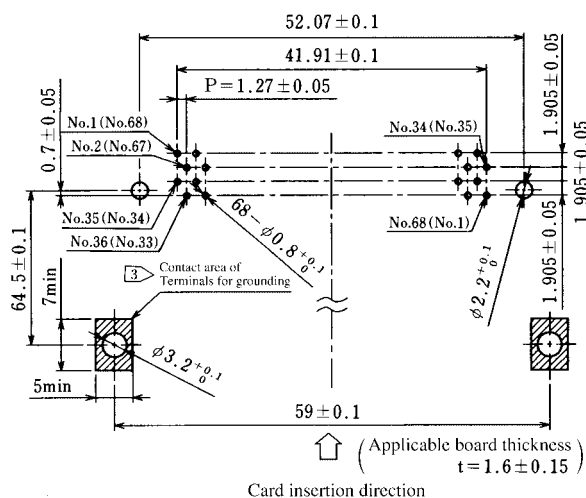
② The applicable range of indicated dimensions ( $54.2^{+0.1}_{-0.05}$ ,  $3.5^{+0.1}_{-0.05}$ ) are taken as 10mm from the bottom.

③ The terminal for grounding should be securely fastened from the bottom surface of the board using a screw (M2×0.4), flat washer and lock washer.

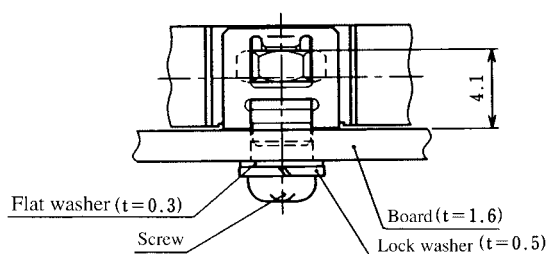
④ Pay attention to the Contact No. since the reverse type is marked "R". See the numbers in parentheses ( ) for the Contact No. of the reverse type.

⑤ The guide groove dimensions of the reverse type are left-right reversed.

## PCB mounting pattern



## Example of Screw Fastening (Recommendation)



## Single Slot Connector

### Without Eject Button

### Standard type

IC7-68PD-1.27DS  
CL640-0405-0

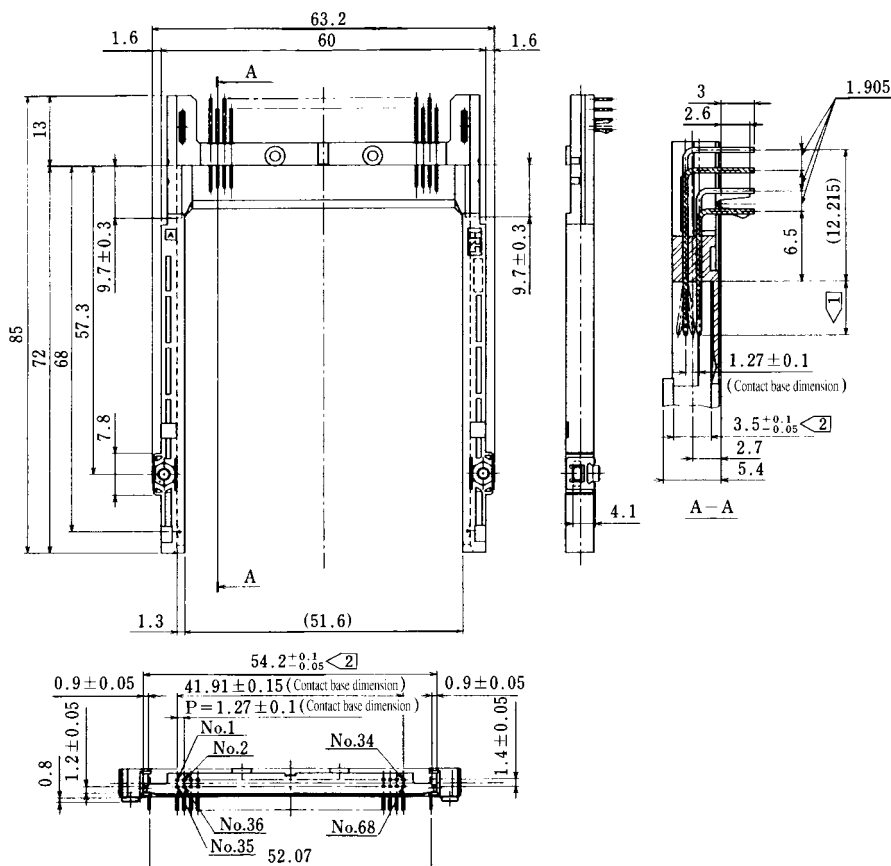


Table 1 ①

| Contact No.           | Contact Length |
|-----------------------|----------------|
| 1, 17, 34, 35, 51, 68 | 5.0 ±0.1       |
| 36, 67                | 3.5 ±0.1       |
| Other than above      | 4.25±0.1       |

Note ① The contacts length is indicated in Table 1.

② The applicable range of indicated dimensions ( $54.2^{+0.1}_{-0.05}$ ,  $3.5^{+0.1}_{-0.05}$ ) are taken as 10mm from the bottom.

③ The terminal for grounding should be securely fastened from the bottom surface of the board using a screw (M2×0.4), flat washer and lock washer.

## PCB mounting pattern

## Example of Screw Fastening (Recommendation)

