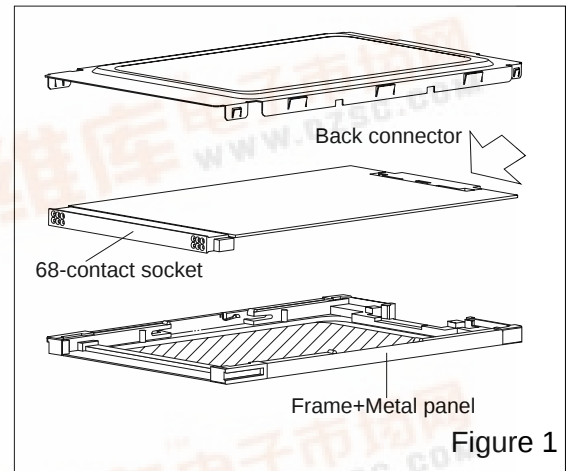
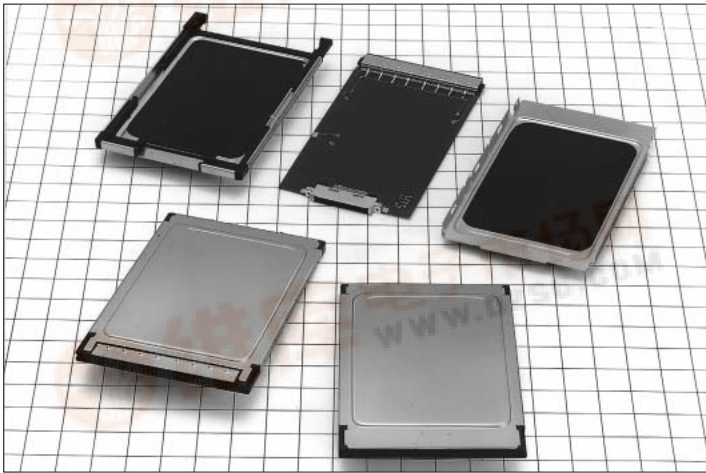


# Simple Assembly Type PC Card Frame Kits

## NX1 Series



### ■Features

#### 1. Great reduction of the number of frame kit assembly steps

Use of this simple assembly method has greatly reduced the number of assembly steps. Processes such as heat fusion and cooling of the covers are no longer required. Assembly of the frame kit is possible using simple jig tools. (See the Simple Assembly Method insert to the right.)

#### 2. Excellent Shielding Qualities

The covered construction using a metal panel out to the sides of the card provide excellent shielding qualities. (See Figure 4.)

#### 3. Board Offset

Available in types with board offsets of 0.3mm and 0.9mm.

#### 4. Back connectors

Back Connectors available with 15, 25, and 32 contacts.

#### 5. Can Be Used With CardBus Types

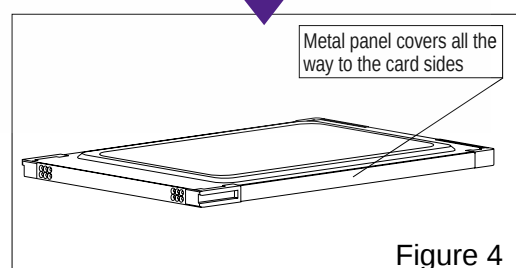
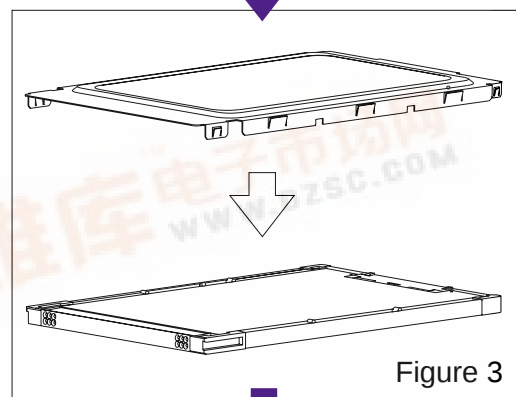
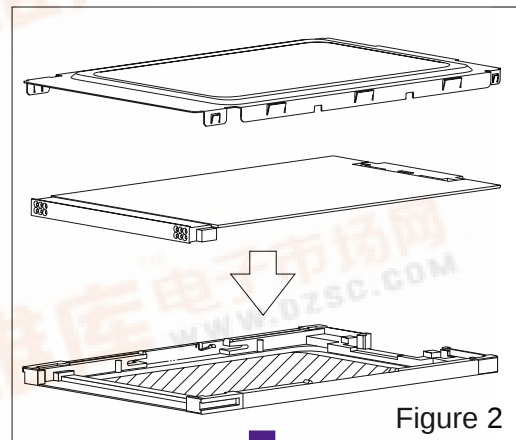
#### 6. Stable Conduction Maintained Between Panels

The spring quality of the metal ensures stable conduction to be maintained between the panels at the panel lock portion.

#### 7. Conduction Maintained Between Panel and Board

The conduction between panel and board is maintained by contact between the panel and a one-body ground spring.

### Simple Assembly Method



### ■Applications

A wide variety of PC cards including LAN, FAX modem, and SCSI.

(For details, see the frame Kit assembly procedure on page 6)

Product Rating

|                             |              |
|-----------------------------|--------------|
| Operating temperature range | -30℃ to +70℃ |
|-----------------------------|--------------|

Materials

|                 |                 |             |         |
|-----------------|-----------------|-------------|---------|
| Part            | Material        | Color       | Remarks |
| Frame           | PBT             | Black       | UL94V-0 |
| Panel           | Stainless steel | Dull Finish | —       |
| Insulation tape | Polyester       | Black       | 510-FR  |

Ordering Information

**NX1B L - 32 T - KT 3 B (05)**

①

②

③

④

⑤

⑥

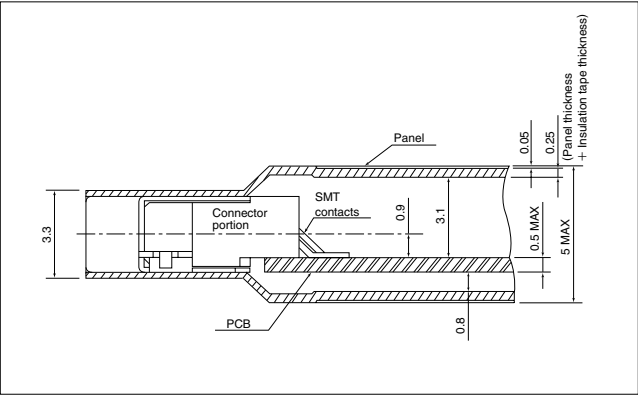
⑦

⑧

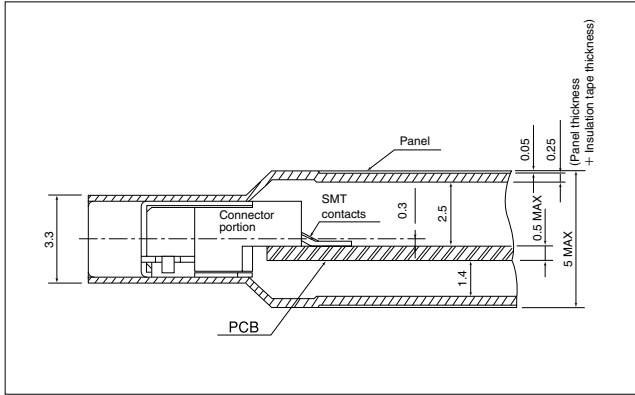
|                                                             |                                            |                                                                                                            |
|-------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------|
| ① Series name<br>NX1 : General type<br>NX1B : Card bus type | ④ Suitable back connectors<br>T: NX Series | ⑦ Type of suitable 68-contact connectors<br>K: General type (IC1K Series)<br>B: Card Bus type (IC9 Series) |
| ② Card key type<br>None : 5 V type<br>L : 3.3 V type        | ⑤ Connector type<br>KT: Frame kit          | ⑧ Presence of insulation tape<br>05 : With insulation tape<br>06 : Without insulation tape                 |
| ③ Number of back connector<br>15, 25, or 32                 | ⑥ Offset<br>3: 0.3mm<br>9: 0.9mm           |                                                                                                            |

Connector Mounting Condition

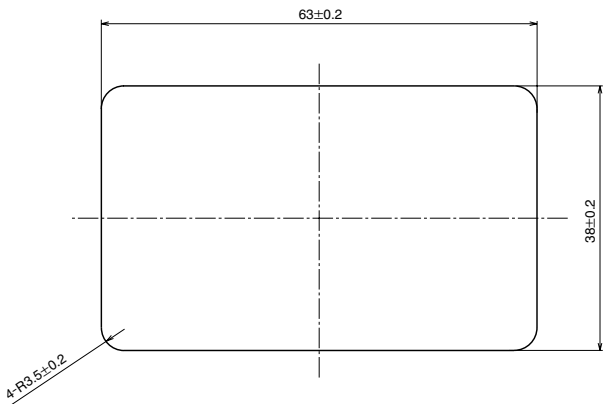
0.9mm Offset Type



0.3mm Offset Type

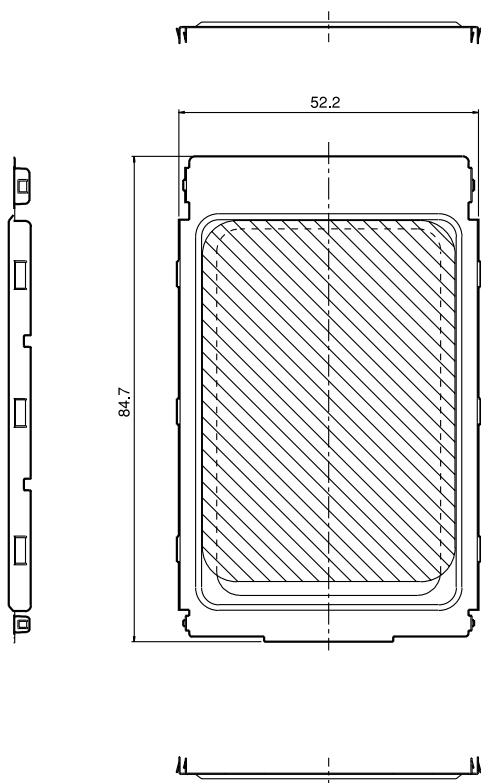
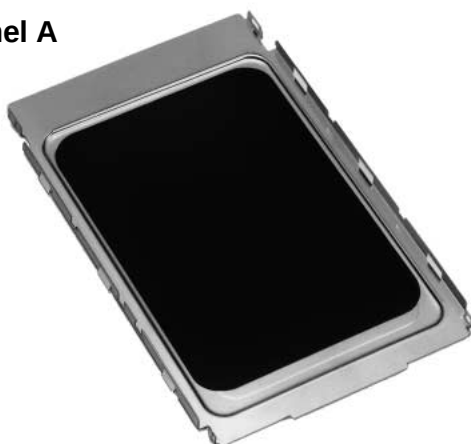


Label Dimensions(Recommended Label Thickness: 50μm)

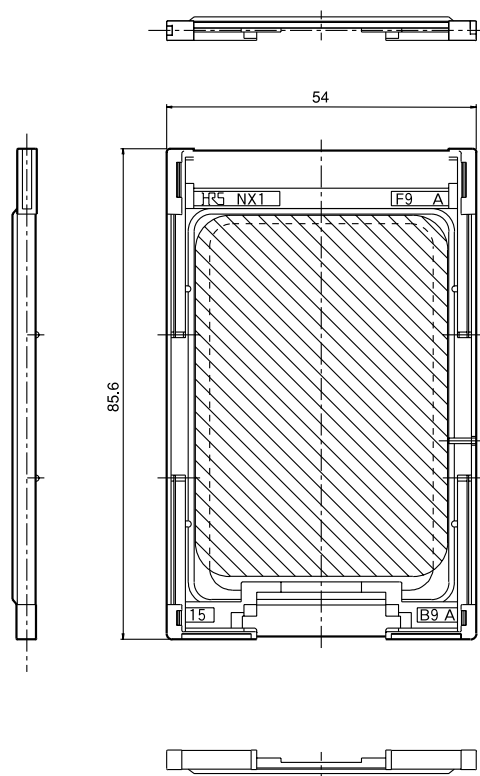


## ■NX1 Series (General Type Frame Kit)

Panel A



Panel B

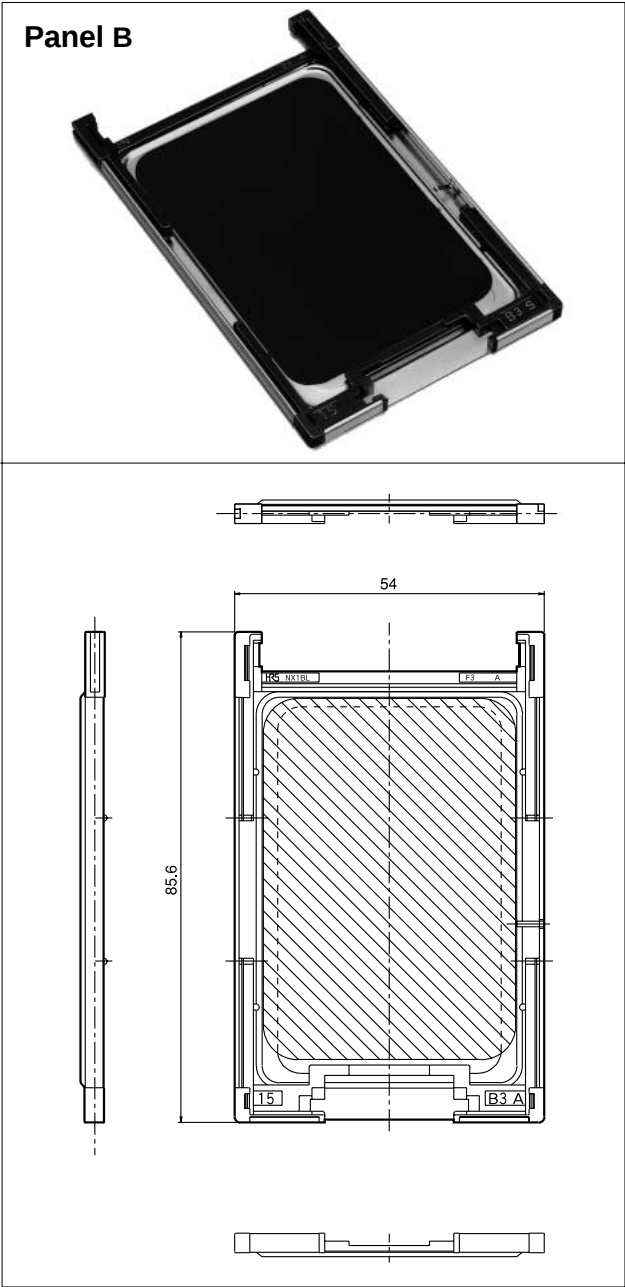
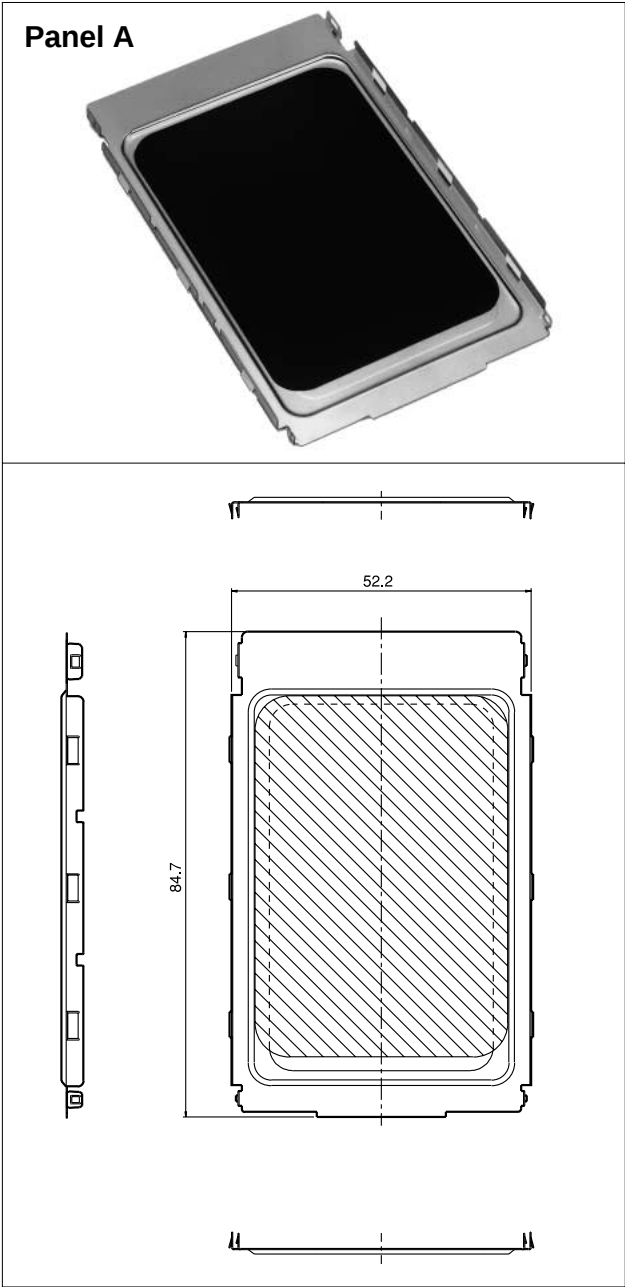


| Number of Contacts | Offset (mm) | Frame Kit        |                | Suitable 68-Contact Socket Connectors |            | Suitable Back Connectors |            |
|--------------------|-------------|------------------|----------------|---------------------------------------|------------|--------------------------|------------|
|                    |             | Part Number      | CL No.         | Part Number                           | CL No.     | Part Number              | CL No.     |
| 15                 | 0.9         | NX1-15T-KT9K(**) | 234-2102-5-**- | IC1K-68RD-1.27SFA                     | 640-0047-2 | NX60TB-15SAA9-SP         | 234-0097-6 |
|                    | 0.3         | NX1-15T-KT3K(**) | 234-2103-8-**- | IC1K-68RD-1.27SF                      | 640-0046-0 | NX60TB-15SAA3-SP         | 234-0098-9 |
| 25                 | 0.9         | NX1-25T-KT9K(**) | 234-2104-0-**- | IC1K-68RD-1.27SFA                     | 640-0047-2 | NX60TA-25SAA9-SP         | 234-0107-8 |
|                    | 0.3         | NX1-25T-KT3K(**) | 234-2105-3-**- | IC1K-68RD-1.27SF                      | 640-0046-0 | NX60TA-25SAA3-SP         | 234-0033-3 |
| 32                 | 0.9         | NX1-32T-KT9K(**) | 234-2106-6-**- | IC1K-68RD-1.27SFA                     | 640-0047-2 | NX60T -32SAA9-SP         | 234-0023-0 |
|                    | 0.3         | NX1-32T-KT3K(**) | 234-2107-9-**- | IC1K-68RD-1.27SF                      | 640-0046-0 | NX60TA-32SAA3-SP         | 234-0053-0 |

(\*\*): (05) : With Insulation type

(06) : Without Insulation type

■NX1B Series (Card Bus Type Frame Kit)

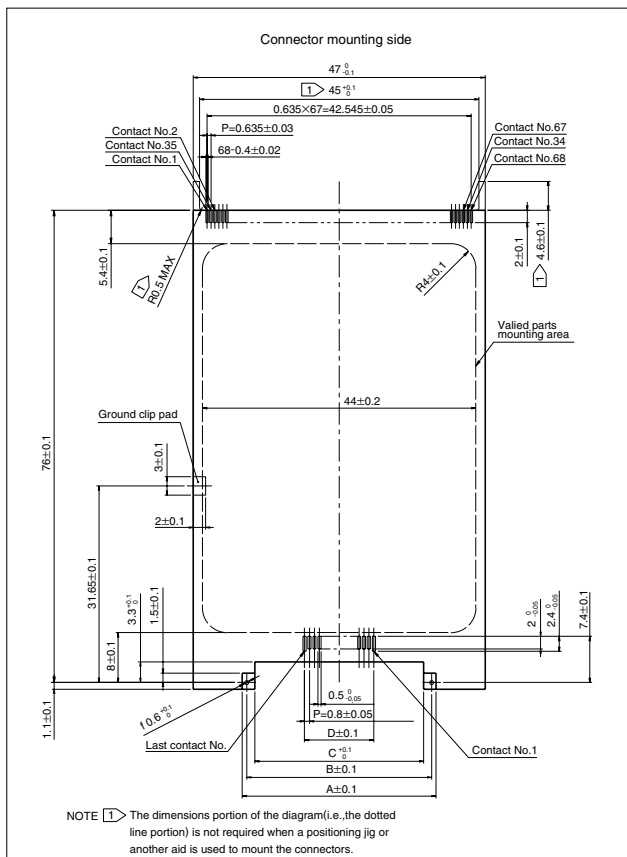


| Number of Contacts | Offset (mm) | Frame Kit          |                | Suitable 68-Contact Socket Connectors |            | Suitable Back Connectors |            |
|--------------------|-------------|--------------------|----------------|---------------------------------------|------------|--------------------------|------------|
|                    |             | Part Number        | CL No.         | Part Number                           | CL No.     | Part Number              | CL No.     |
| 15                 | 0.9         | NX1BL-15T-KT9B(**) | 234-2153-6-**- | IC9-68RD-0.635SFA                     | 640-0902-5 | NX60TB-15SAA9-SP         | 234-0097-6 |
|                    | 0.3         | NX1BL-15T-KT3B(**) | 234-2154-9-**- | IC9-68RD-0.635SF                      | 640-0901-2 | NX60TB-15SAA3-SP         | 234-0098-9 |
| 25                 | 0.9         | NX1BL-25T-KT9B(**) | 234-2157-7-**- | IC9-68RD-0.635SFA                     | 640-0902-5 | NX60TA-25SAA9-SP         | 234-0107-8 |
|                    | 0.3         | NX1BL-25T-KT3B(**) | -----          | IC9-68RD-0.635SF                      | 640-0901-2 | NX60TA-25SAA3-SP         | 234-0033-3 |
| 32                 | 0.9         | NX1BL-32T-KT9B(**) | 234-2155-1-**- | IC9-68RD-0.635SFA                     | 640-0902-5 | NX60T -32SAA9-SP         | 234-0023-0 |
|                    | 0.3         | NX1BL-32T-KT3B(**) | 234-2156-4-**- | IC9-68RD-0.635SF                      | 640-0901-2 | NX60TA-32SAA3-SP         | 234-0053-0 |

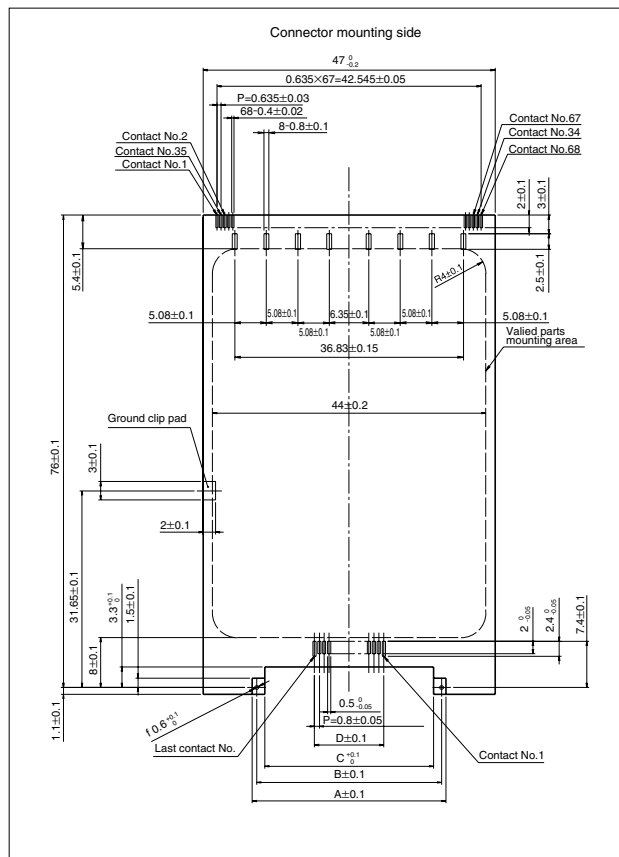
(\*\*) : (05) : With Insulation type  
(06) : Without Insulation type

## ◆Board Dimensions (Applicable Board Thickness: 0.5 mm Max.)

### ●NX1 Series (General Type)



### ●NX1B Series (CardBus Type)



| Type                                        | Part Number        | Number of Contacts | Offset | A    | B    | C    | D    |
|---------------------------------------------|--------------------|--------------------|--------|------|------|------|------|
| NX 1Series<br>(General Type)                | NX1-15T-KT9K(**)   | 15                 | 0.9    | 31.2 | 29.8 | 27.2 | 11.2 |
|                                             | NX1-25T-KT9K(**)   | 25                 |        | 39.2 | 37.8 | 35.2 | 19.2 |
|                                             | NX1-32T-KT9K(**)   | 32                 |        | 44.8 | 43.4 | 40.8 | 24.8 |
|                                             | NX1-15T-KT3K(**)   | 15                 | 0.3    | 31.2 | 29.8 | 27.2 | 11.2 |
|                                             | NX1-25T-KT3K(**)   | 25                 |        | 39.2 | 37.8 | 35.2 | 19.2 |
|                                             | NX1-32T-KT3K(**)   | 32                 |        | 44.8 | 43.4 | 40.8 | 24.8 |
| NX1B Series<br>(Card Bus Type<br>Frame Kit) | NX1BL-15T-KT9B(**) | 15                 | 0.9    | 31.2 | 29.8 | 27.2 | 11.2 |
|                                             | NX1BL-25T-KT9B(**) | 25                 |        | 39.2 | 37.8 | 35.2 | 19.2 |
|                                             | NX1BL-32T-KT9B(**) | 32                 |        | 44.8 | 43.4 | 40.8 | 24.8 |
|                                             | NX1BL-15T-KT3B(**) | 15                 | 0.3    | 31.2 | 29.8 | 27.2 | 11.2 |
|                                             | NX1BL-25T-KT3B(**) | 25                 |        | 39.2 | 37.8 | 35.2 | 19.2 |
|                                             | NX1BL-32T-KT3B(**) | 32                 |        | 44.8 | 43.4 | 40.8 | 24.8 |

\*Please use "NX Series Flame Kit (Not NX 1) "when print processing the panel.

(\*\*): (05) : With Insulation type

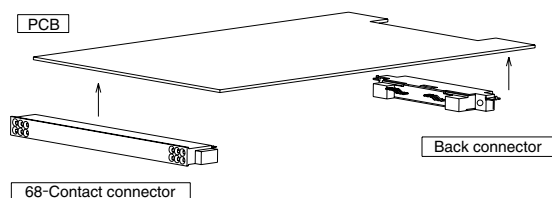
(06) : Without Insulation type

## ◆Frame Kit Assembly Process

### Assembly Process Figure 1

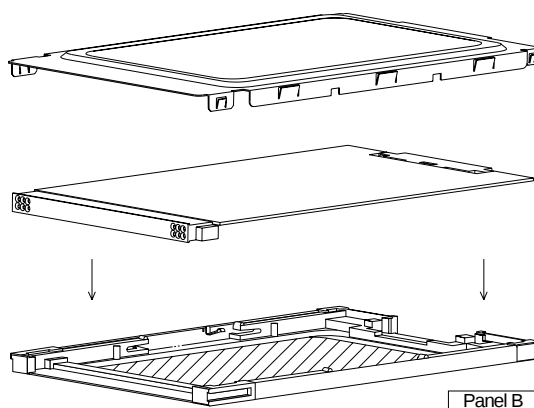
Mount the connectors(68-contact connectors, back connectors) and other parts to the printed circuit board (PCB).

NOTE :The procedure for the IC9 Series (suited to the 68-contact connectors and card bus) is to mount the connector body, then insert the ground plate and fasten the lead portion by hand.



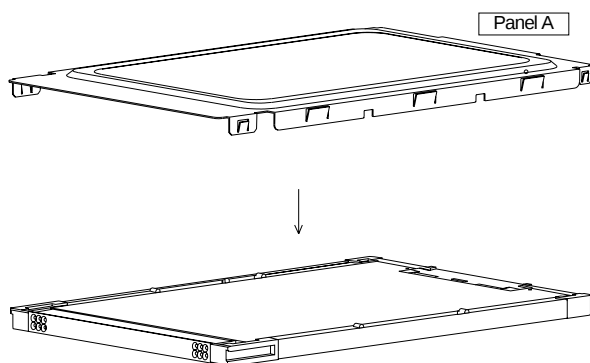
### Assembly Process Figure 2

Insert the PCB mounting part to panel B (frame press fitting item).



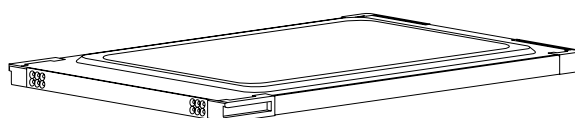
### Assembly Process Figure 3

Use the assembly jig (described below) to insert panel A. (Press fit + lock)



### Assembly Process Figure 4

Assembled item



### Assembly Jig



(The photograph shows the hand press model.)

| Classification     | Part Number      | CL No.         |
|--------------------|------------------|----------------|
| Without hand press | NX1-/CVCK-MP     | 902-3530-7     |
| With hand press    | NX1-/CVCK-MP(01) | 902-3530-7(01) |

### Assembly Process Figure 5

Affix the label to the indented portion of the panel.

NOTE :Hirose Electric Co. Ltd. will not provide label services.  
(Please refer to the Recommended Label Dimensions Diagram of Page 2.)

