Simple Assembly Type PC Card Frame Kits

NX1 Series

Back connector

68-contact socket

Frame+Metal panel

Figure 1
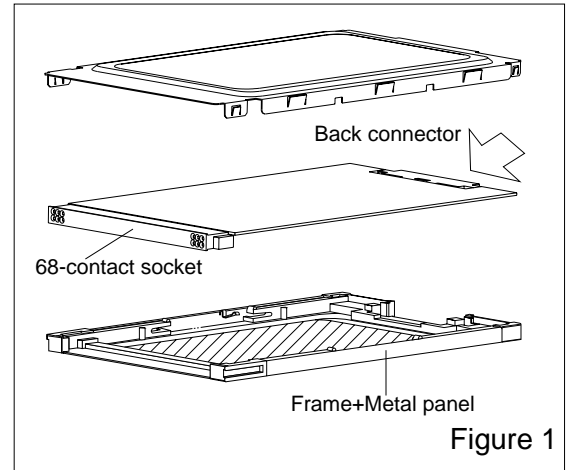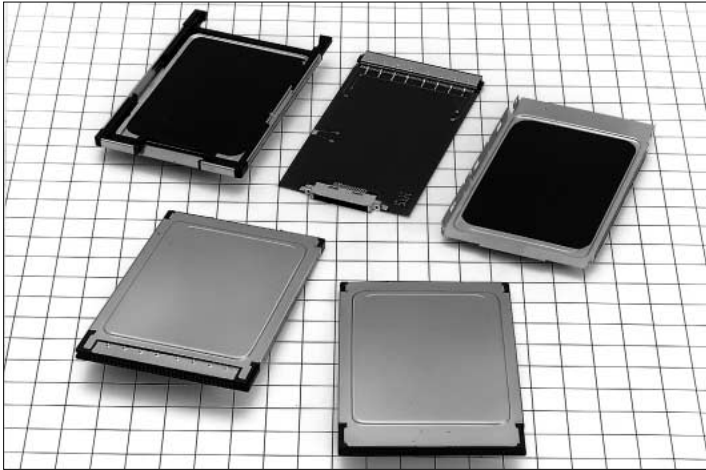
■Features

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 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.
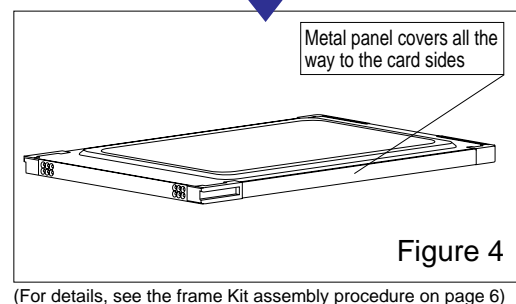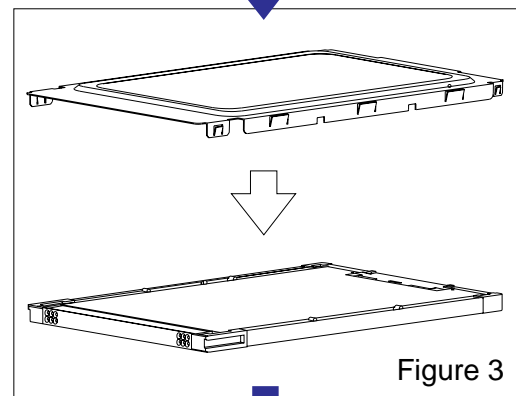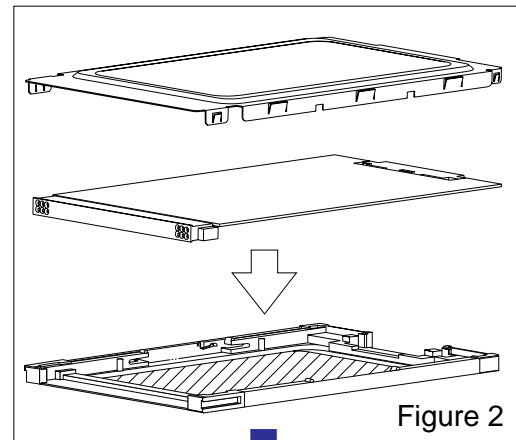
7. Conduction Maintained Between Panel and Board

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

■Applications

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

Simple Assembly Method

Figure 2

Figure 3

Metal panel covers all the way to the card sides

Figure 4

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

HRS

■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

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

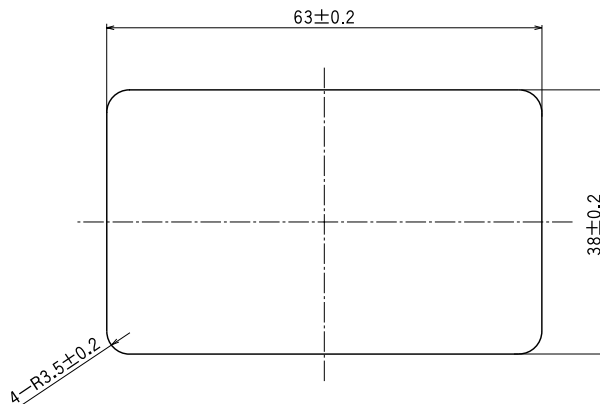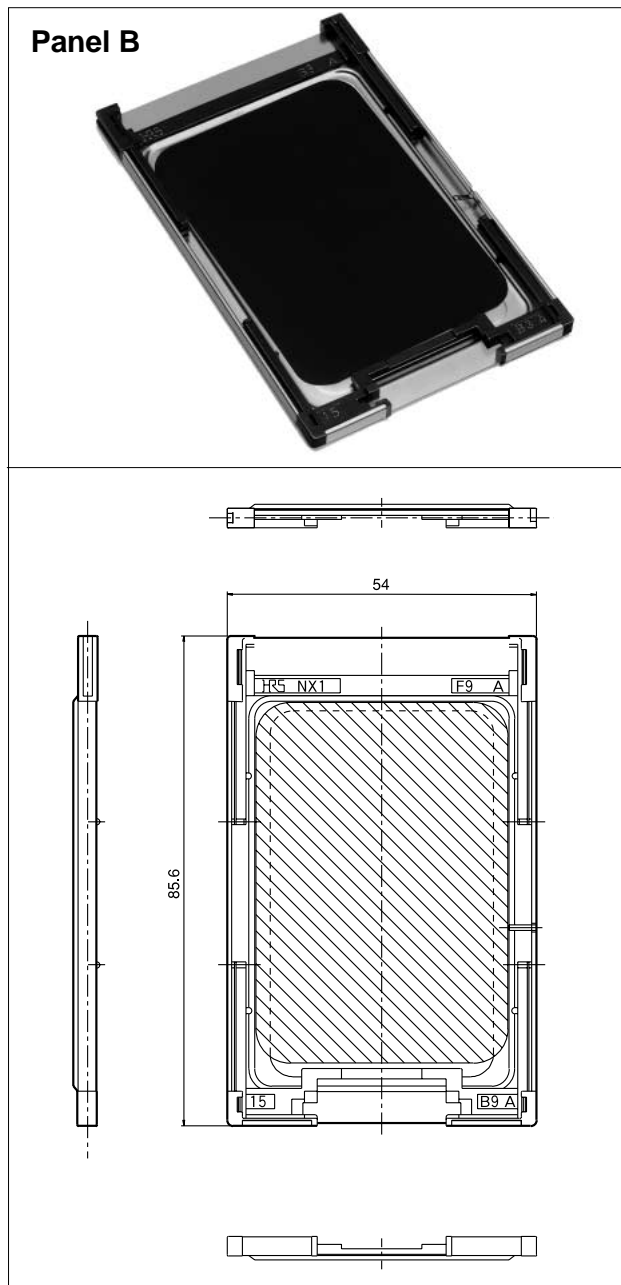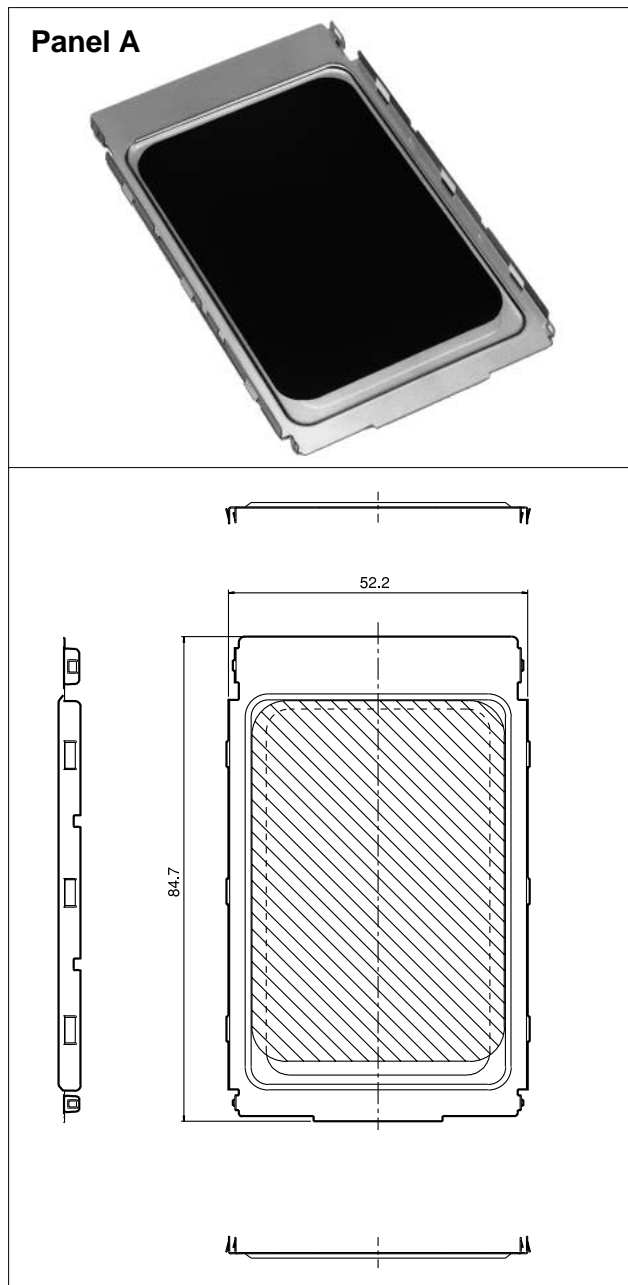# ■Connector Mounting Condition (Back conector side)

●0.9mm Offset Type
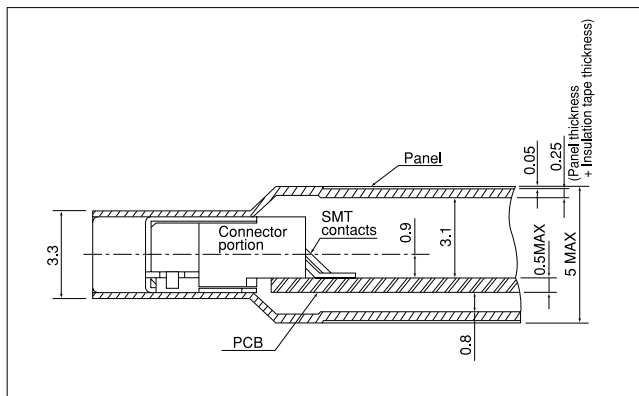
●0.3mm Offset Type
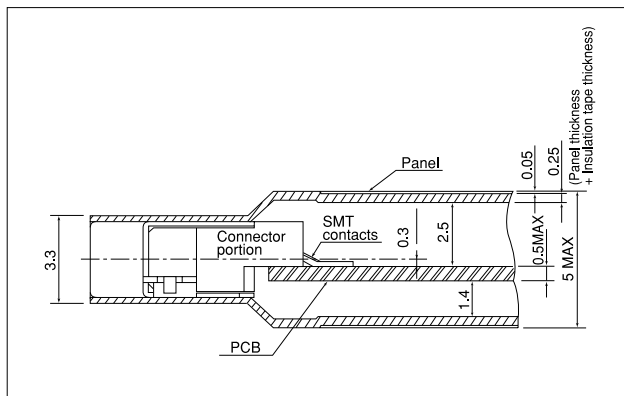
■Label Dimensions (Recommended Label Thickness: 50μm)

63±0.2

38±0.2

4-R3.5±0.2

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■NX1 Series (General Type Frame Kit)

Panel A

52.2

84.7

Panel B

54

85.6

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

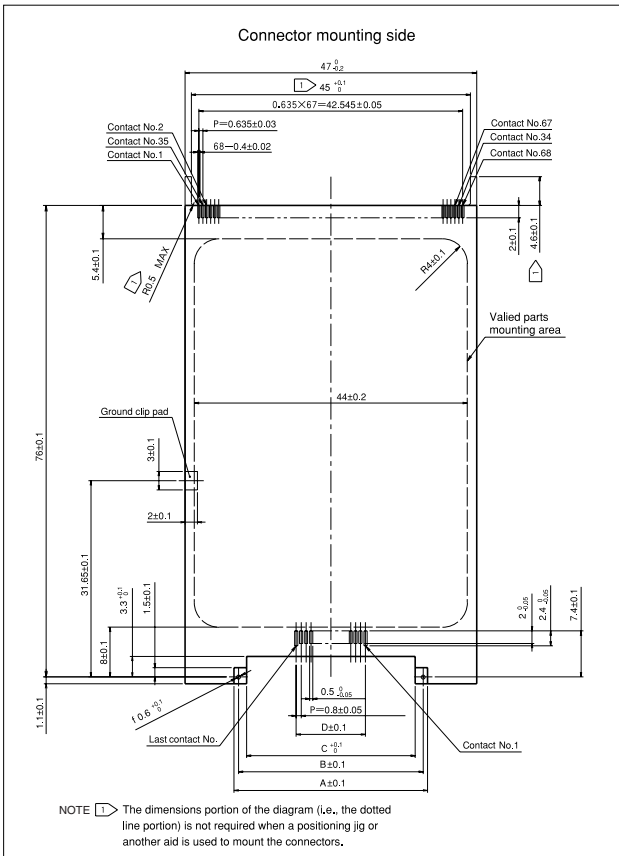# ■NX1B Series (Card Bus Type Frame Kit)
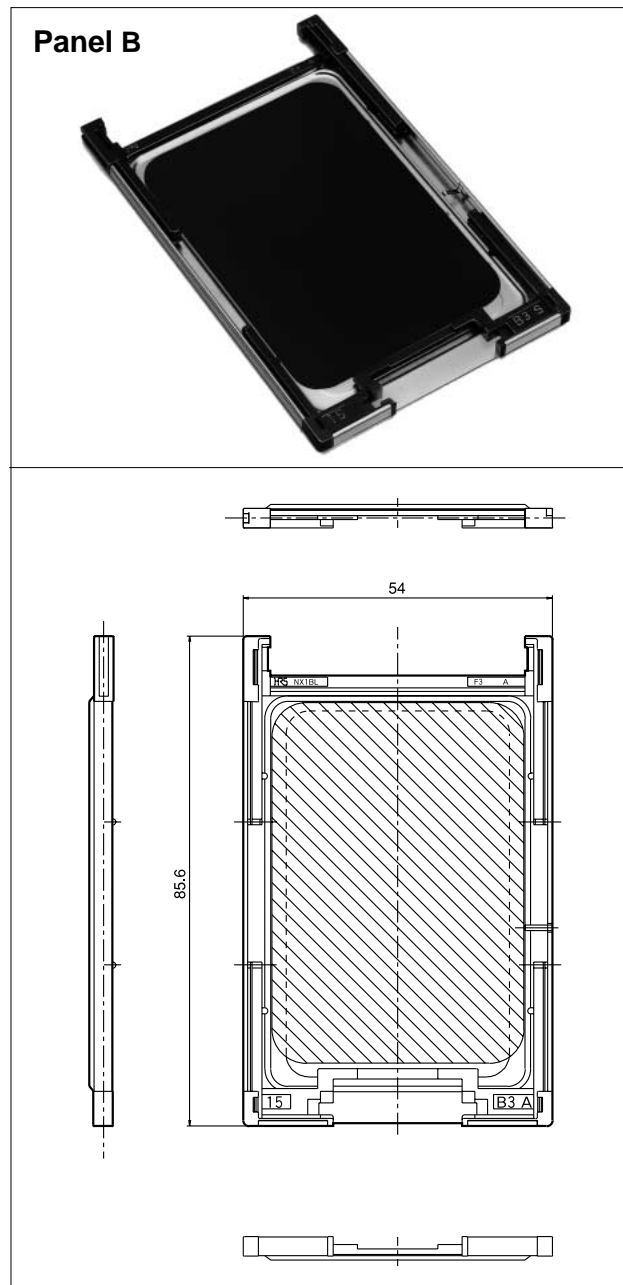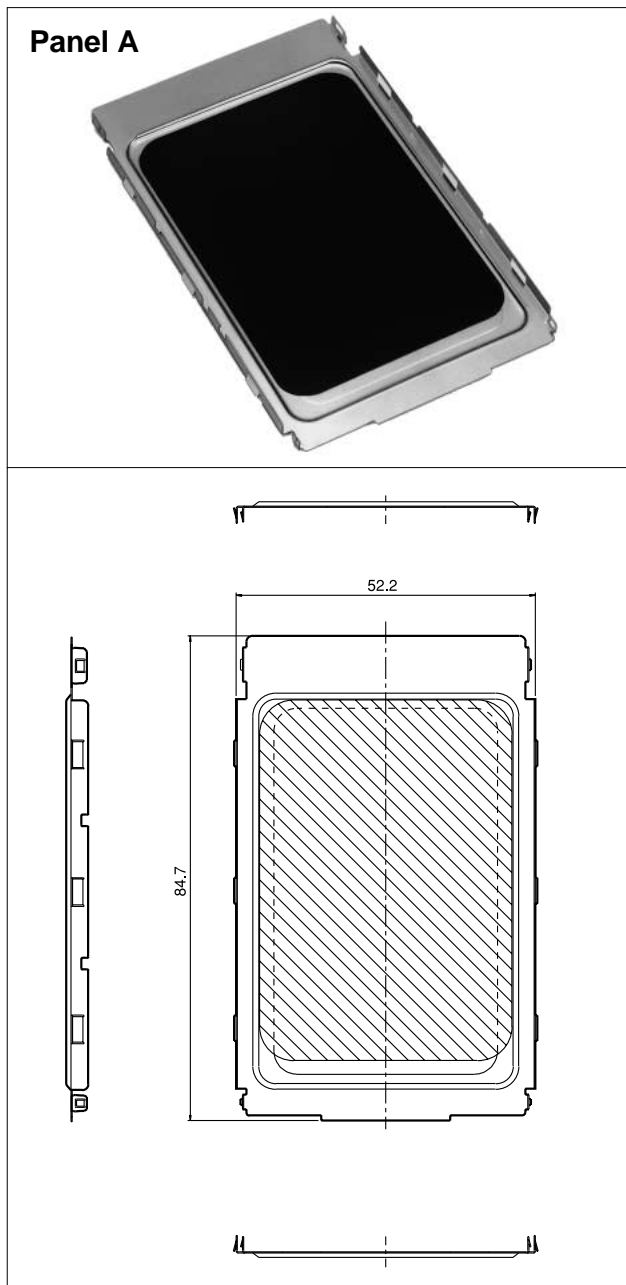
Panel A

Panel B

52.2

84.7

54

85.6

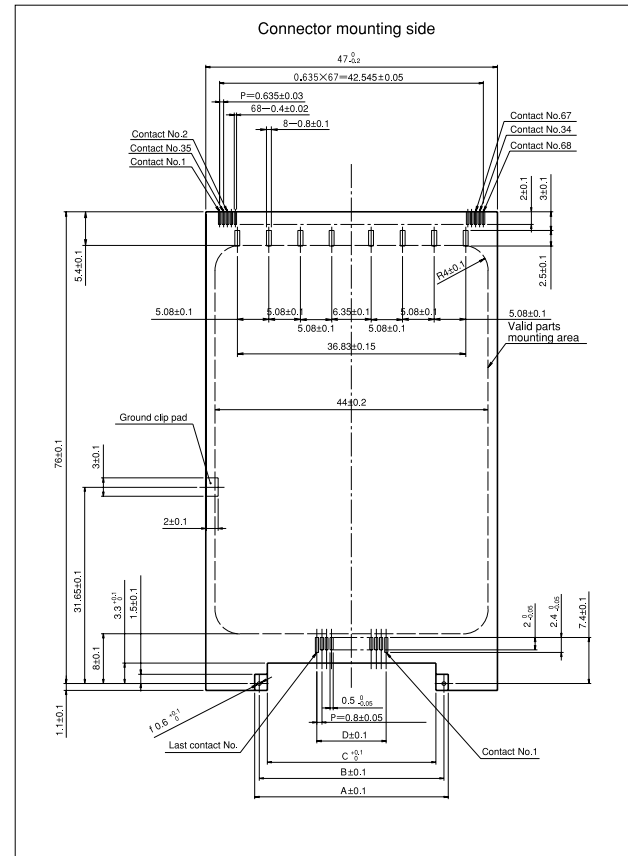| Number of Contacts	Offset (mm)	Frame Kit		Suitable 68-Contact Socket Connectors		Suitable Back Connectors	
		Part Number	CL No.	Part Number	CL No.	Part Number	CL No.
15	0.9	NX1BL-15T-KT9B(✱✱)	234-2153-6-✱✱	IC9-68RD-0.635SFA	640-0902-5	NX60TB-15SAA9-SP	234-0097-6
	0.3	NX1BL-15T-KT3B(✱✱)	234-2154-9-✱✱	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

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

●NX1 Series (General Type) ●NX1B Series (CardBus Type)

NOTE ⟨1⟩ The dimensions portion of the diagram (i.e., the dotted line portion) is not required when a positioning jig or another aid is used to mount the connectors.

Type	Part Number	Number of Contacts	Offset	A	B	C	D
NX 1Series (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 (Card Bus Type 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 N X 1) "when print processing the panel.

(∗∗) : (05) : With Insulation type

(06) : Without Insulation type

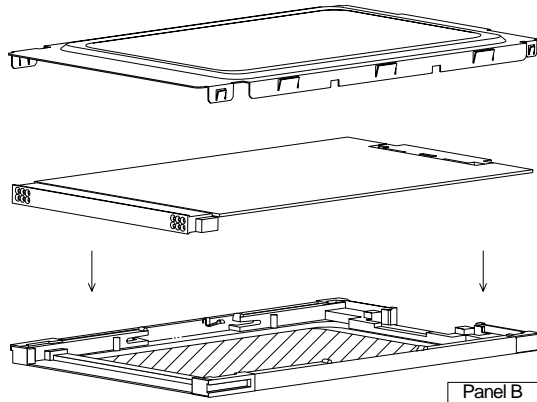# ◆Frame Kit Assembly Process

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.
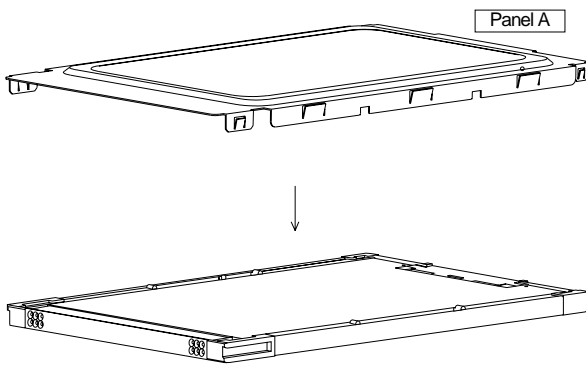
PCB

Back connector

68-Contact connector
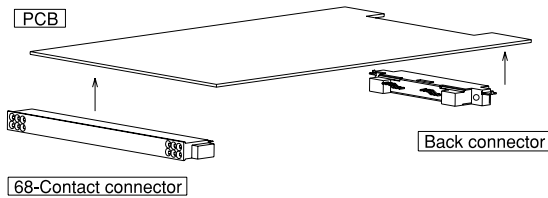
Assembly Process Figure 2

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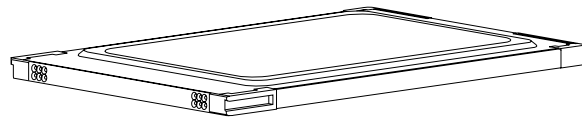
Panel B

Assembly Process Figure 3

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

Panel A

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.)