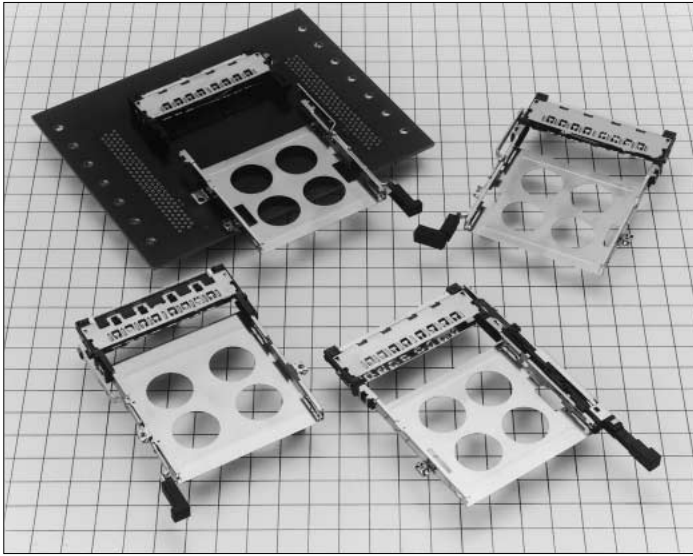


Single Slot SMT Connectors For Card-Bus Based PC Cards

IC11S Series

PC Card Standard Compliant



Reduced height : 5.6mm high



■Features

1. PC Card Standard compliant:

- Grounding is required to meet the high speed signal requirements of the PC card standard. Grounding reliability is achieved with a grounding plate and 8 grounding contacts.
- Type I , type II and type III cards are covered.
- Terminals for ground clipping are provided.

2. Space saving

Smaller size reduces occupied area on PC boards as compared to previous products.

3. Reduced Height:

Connector height is minimized to 5.6mm, making possible thinner product designs.

4. Eject mechanism with high-level functionality

Hirose Electric's original ejection mechanism provides an higher degree of card ejection over existing products. This improves the operational qualities of card removal. (Patents pending)

5. Wide Variety of Options Available

- Standard type mounts to the top of the PC board and reverse type mounts on the underside of the board
- Three types of eject buttons; rigid, flexible and POP-UP. All types can be installed on the right or left side of the ejector.
- Available with standoff to utilize space under the connector for mounting other parts.

6. Light-weight

Weight of 12.7g for normal button type helps achieve the reduced weight required in today's products.

Wide variety of options

- (1)Board Mounting
 - ①Standard type
 - ②Reverse type
- (2)Types of eject button
 - ①Rigid button
 - ②Foldering button
 - ③Pop-up button
- (3)Position of eject buttons
 - ①Right
 - ②Left
- (4)Standoffs
 - ①None
 - ②2.2mm



■Product Specifications

Ratings	Current rating	0.5A	Operating temperature	-55℃ to +85℃(Note.1)	Storage temperature	-40℃ to +70℃(Note.2)
	Voltage rating	125V AC	Operating humidity	Relativehumidity 95% max. (With no dew-fall)	Storage humidity	40% to 70%(Note.2)

Item	Specification	Conditions
1.Insulation resistance	1000M ohms min.	500V DC
2.Withstanding voltage	No flashover or insulation breakdown.	500V AC
3.Contact resistance	60m ohms 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 147 m/s ² (peak), 4 hours in each of the 3 directions.
5.Humidity (Steady state)	Insulation resistance: 100M ohms min.	96 hours at temperature of 40℃ and humidity of 90% to 95%
6.Temperature cycle	Insulation resistance: 100M ohms min.	(-55℃:30min.→+5℃ to 35℃:MAX 5min→85℃:30min→+5-35℃:MAX 5min.) 5 cycles
7.Durability (Insertion/withdrawal)	Variations from initial contact resistance: 20m ohms max.	10000 cycles at 400 to 600 cycles per hour
8.Resistance to Soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 300℃ 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

SMT unit

Parts		Material	Finish	Remarks
Insulator		PPS	Black	UL94V-0
Contact	Card connected section	Brass	Contact section: gold plating Lead section: solder plating	——
	Ground plate	Phosphor bronze	Contact section: gold plating Lead section: solder plating	——
Eject metal fittings		Stainless steel	——	——

Guide unit

Item			Material	Finish	Remarks
Guide plate			Stainless steel	——	——
Push rod			Stainless steel	——	——
Eject Button	Rigid button type	resin section	PBT	Color : Black	UL94V-0
	Foldering button type	resin section	PBT	Color : Black	UL94V-0
		spring	Stainless steel	——	——
		spring pin	Stainless steel	——	——
	POP-UP type	resin section	PBT	Color : Black	UL94V-0
		frame metal	Stainless steel	——	——
		spring	Steel	——	——
		pin	Brass	Nickel plating	——
Nut			Steel	——	M2X0.4

■ Ordering Information

SMT Unit

IC11S **A** - **68** **PLR** - **1.27SF** - **EJ** **R**
1
 2
 3
 4
 5
 6
 7

1 Series name : IC11S	5 1.27SF : 1.27mm pitch SMT connector
2 Standoff type Blank : none A : 2.2mm	6 With ejector EJ : with ejector
3 Number of contacts : 68	
4 Board Mounting Type: PL : standard type PLR : reverse type	7 Eject button positions R : right L : left

Guide Unit

IC11S **A** - **BUR** - **FEJ** **R**
8
 9
 10
 11
 12

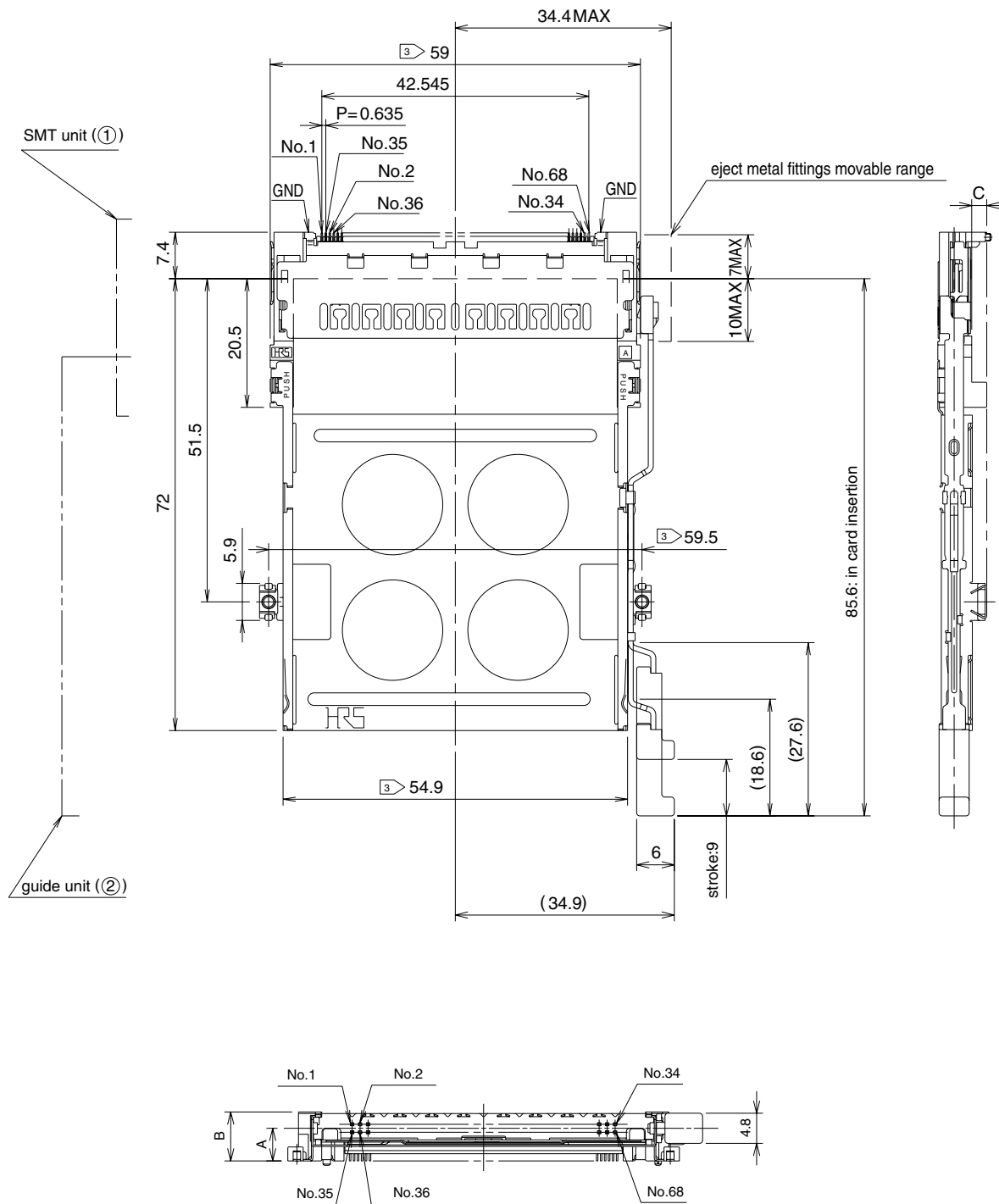
8 Series name : IC11S	11 Eject button type EJ : rigid button FEJ : Foldering button PEJ : POP-UP button
9 Standoff type Blank: none A : 2.2mm	
10 Board Mounting Type BD : standard type BUR : reverse type	12 Eject button positions R : right L : left

(Note.) IC11S Series will be used in combination of SMT unit with guide unit. When using, please select the same type for the following items. Please note that other combinations cannot be used.

- Series name (**1** ⇔ **8**)
- Standoff (**2** ⇔ **9**)
- Board-installed type (**4** ⇔ **10**)
- Eject button positions (**7** ⇔ **12**)

■Standard

Right rigid button type



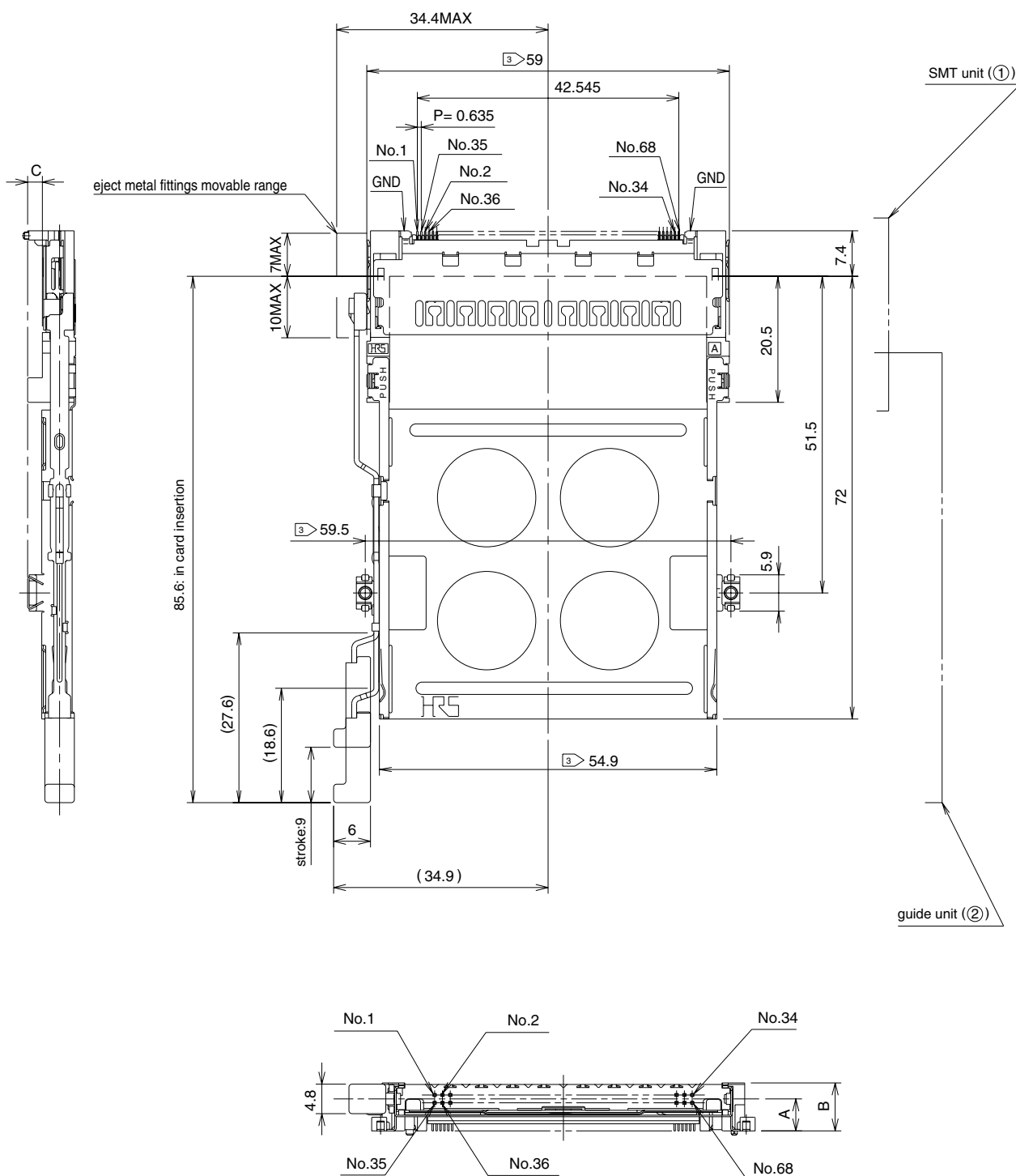
Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJR	640-1007-3	IC11S-BD-EJR	640-1071-2	3	5.6	0.1	12.7
2.2mm	IC11SA-68PL-1.27SF-EJR	640-1009-9	IC11SA-BD-EJR	640-1073-8	5.2	7.8	2.3	13.1

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Standard
Left rigid button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJL	640-1008-6	IC11S-BD-EJL	640-1072-5	3	5.6	0.1	12.7
2.2mm	IC11SA-68PL-1.27SF-EJL	640-1010-8	IC11SA-BD-EJL	640-1074-0	5.2	7.8	2.3	13.1

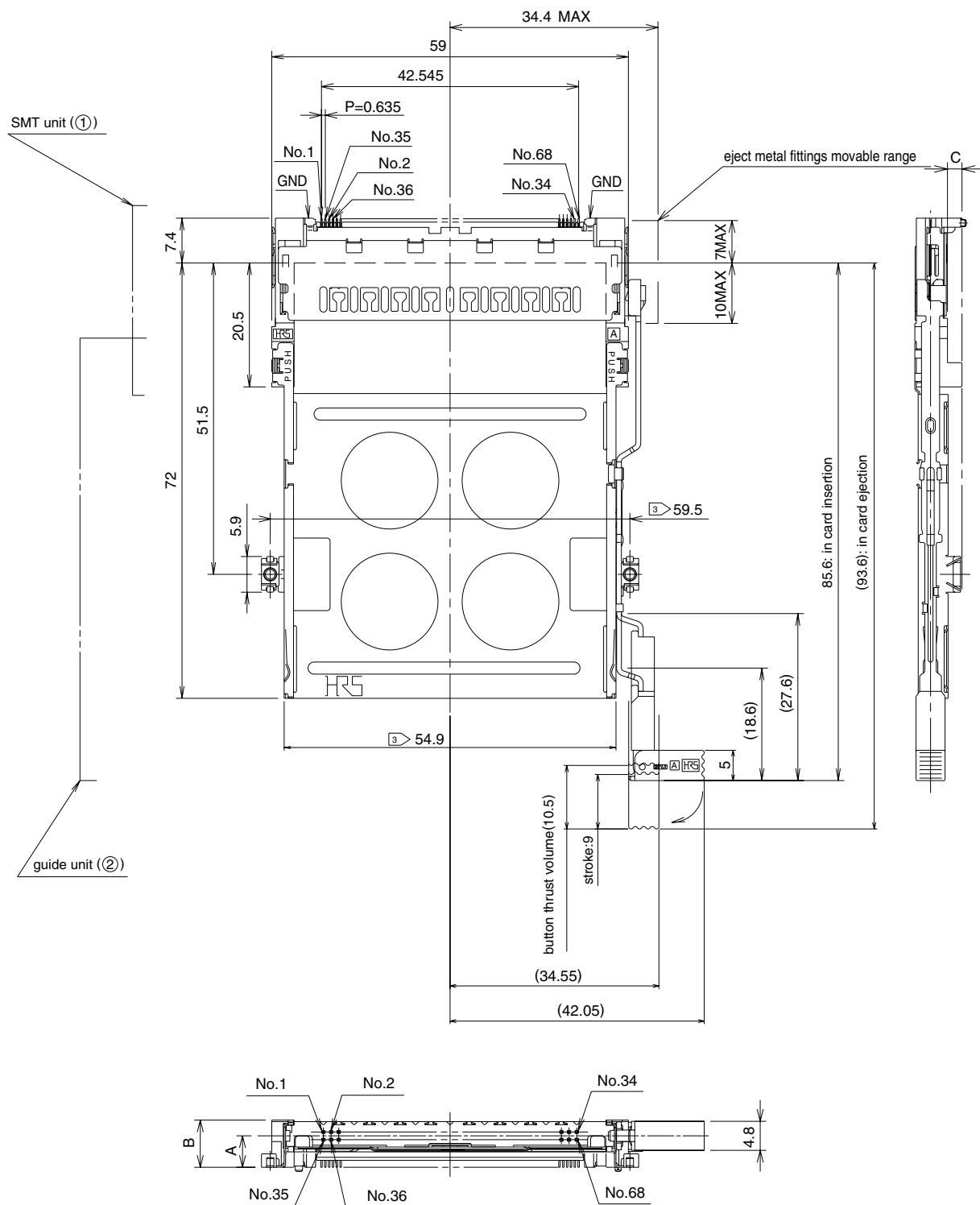
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

■Standard

Right flexible button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJR	640-1007-3	IC11S-BD-FEJR	640-1075-3	3	5.6	0.1	13.1
2.2mm	IC11SA-68PL-1.27SF-EJR	640-1009-9	IC11SA-BD-FEJR	640-1077-9	5.2	7.8	2.3	13.5

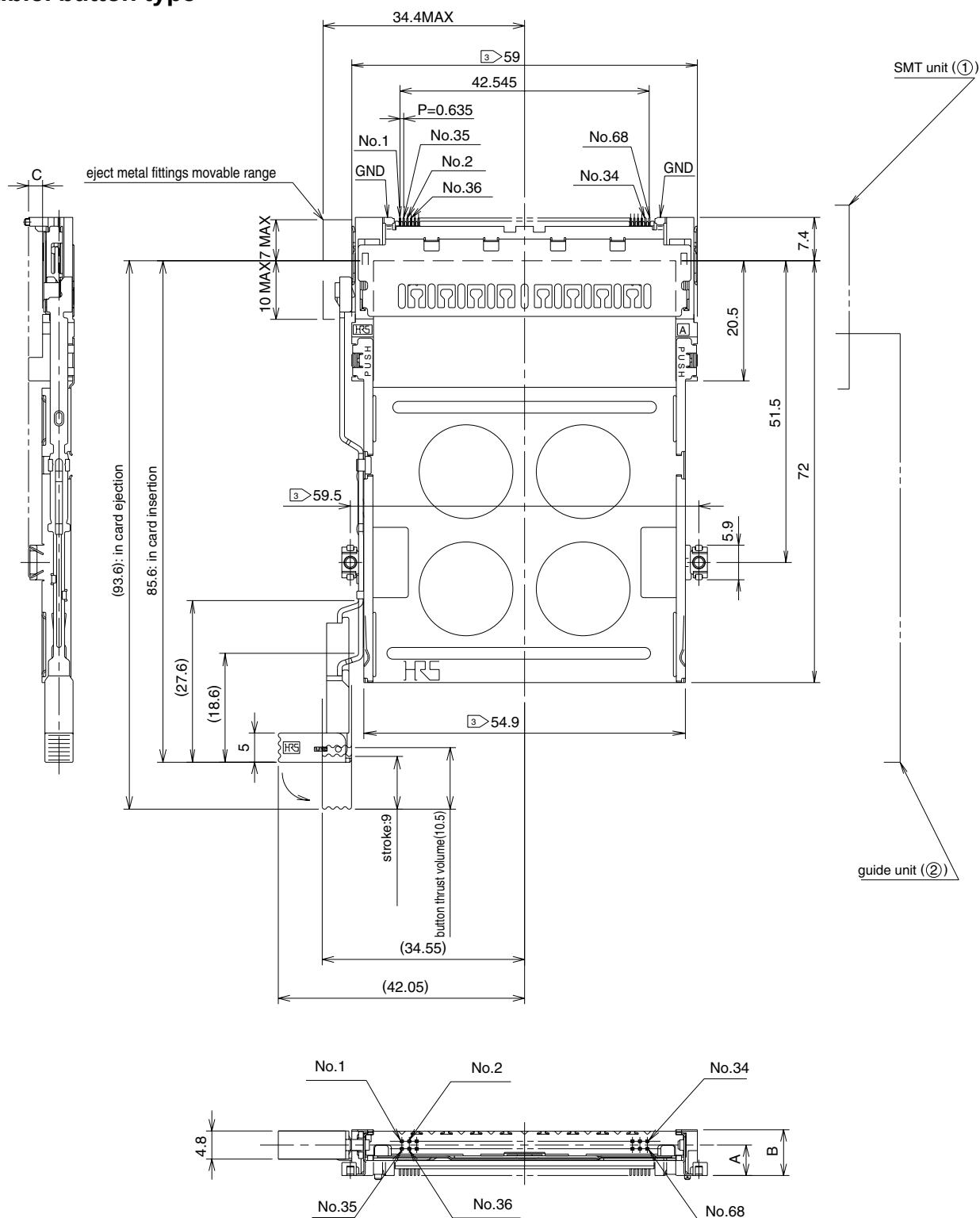
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

■Standard

Left flexible. button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJL	640-1008-6	IC11S-BD-FEJL	640-1076-6	3	5.6	0.1	13.1
2.2mm	IC11SA-68PL-1.27SF-EJL	640-1010-8	IC11SA-BD-FEJL	640-1078-1	5.2	7.8	2.3	13.5

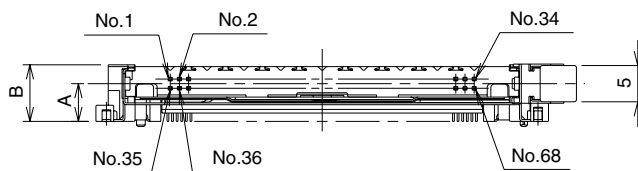
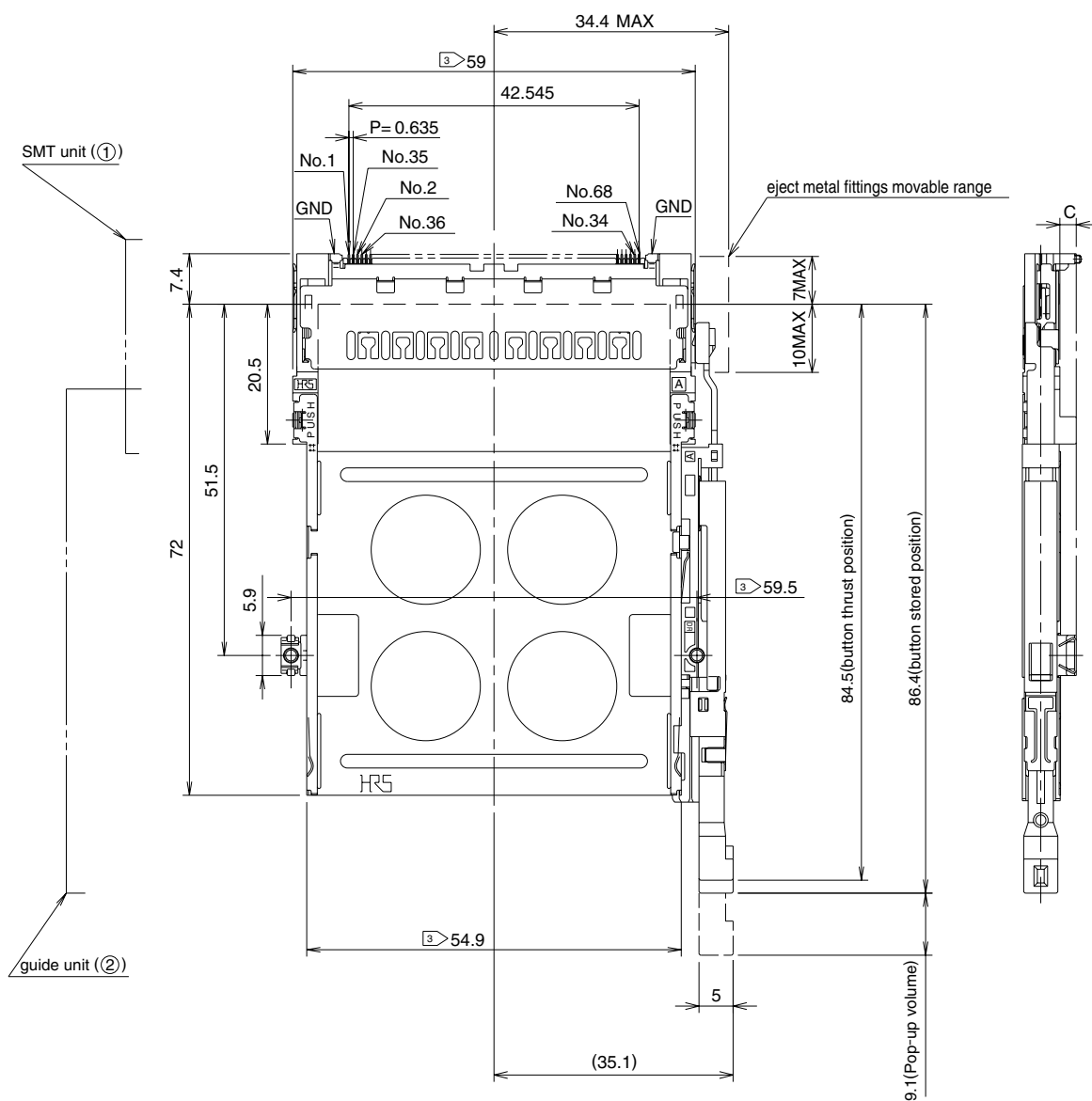
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

■Standard

Right POP-UP button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJR	640-1007-3	IC11S-BD-PEJR	640-1081-6	3	5.7	0.1	14.7
2.2mm	IC11SA-68PL-1.27SF-EJR	640-1009-9	IC11SA-BD-PEJR	640-1083-1	5.2	7.9	2.3	15.1

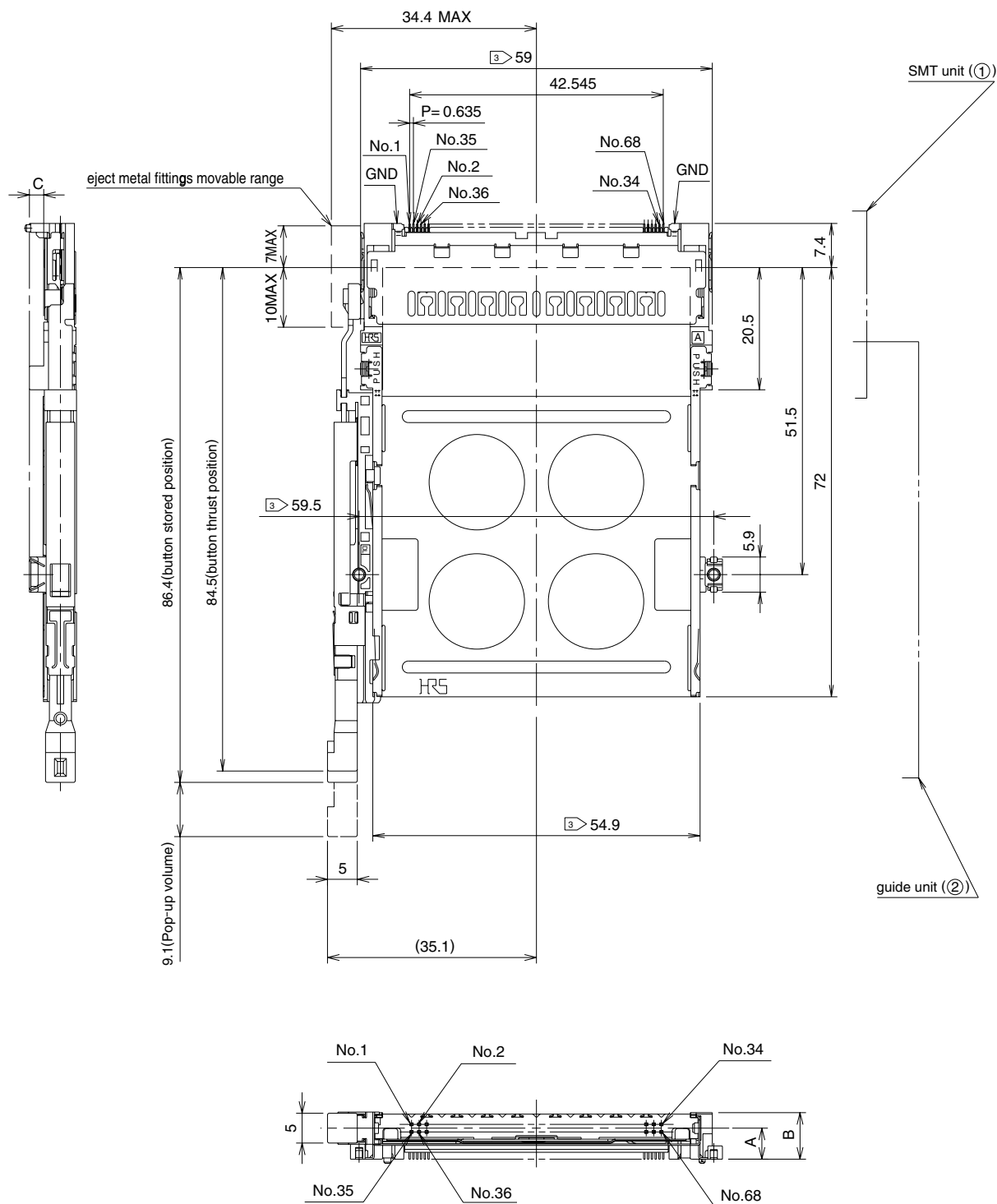
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

■Standard

Left POP-UP button type



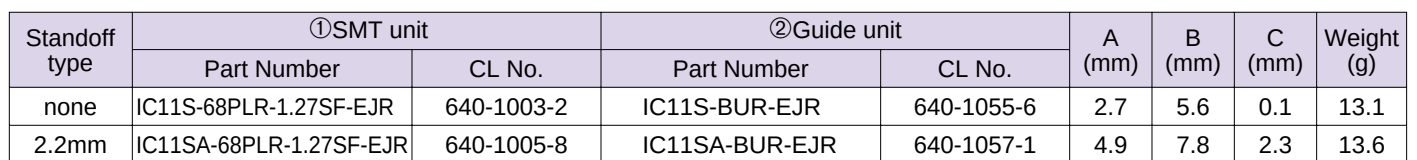
Standoff type	①SMT unit		②Guide unit		A (mm)	A (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PL-1.27SF-EJL	640-1008-6	IC11S-BD-PEJL	640-1082-9	3	5.7	0.1	14.7
2.2mm	IC11SA-68PL-1.27SF-EJL	640-1010-8	IC11SA-BD-PEJL	640-1084-4	5.2	7.9	2.3	15.1

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

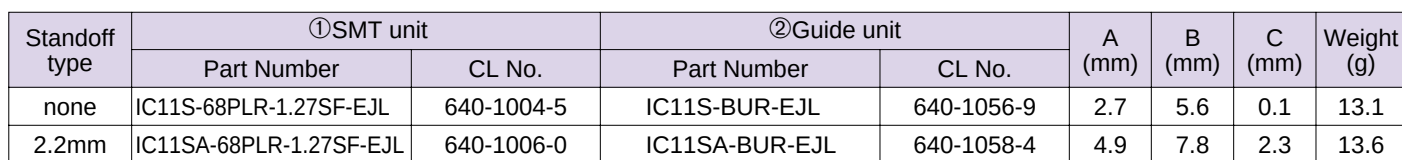
Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Right rigid button type



Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

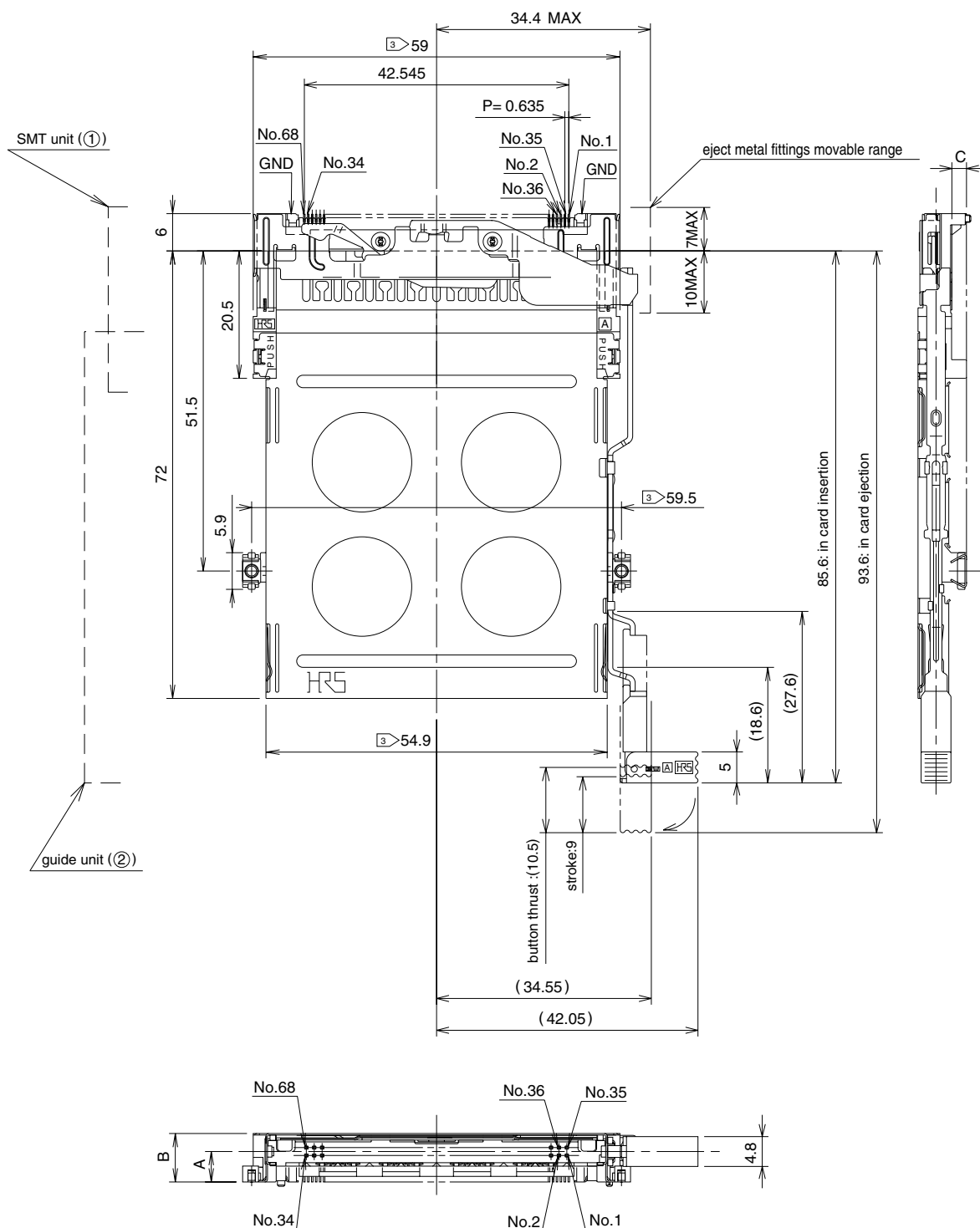
Left rigid button type



Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Right flexible button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PLR-1.27SF-EJR	640-1003-2	IC11S-BUR-FEJR	640-1059-7	2.7	5.6	0.1	13.5
2.2mm	IC11SA-68PLR-1.27SF-EJR	640-1005-8	IC11SA-BUR-FEJR	640-1061-9	4.9	7.8	2.3	14

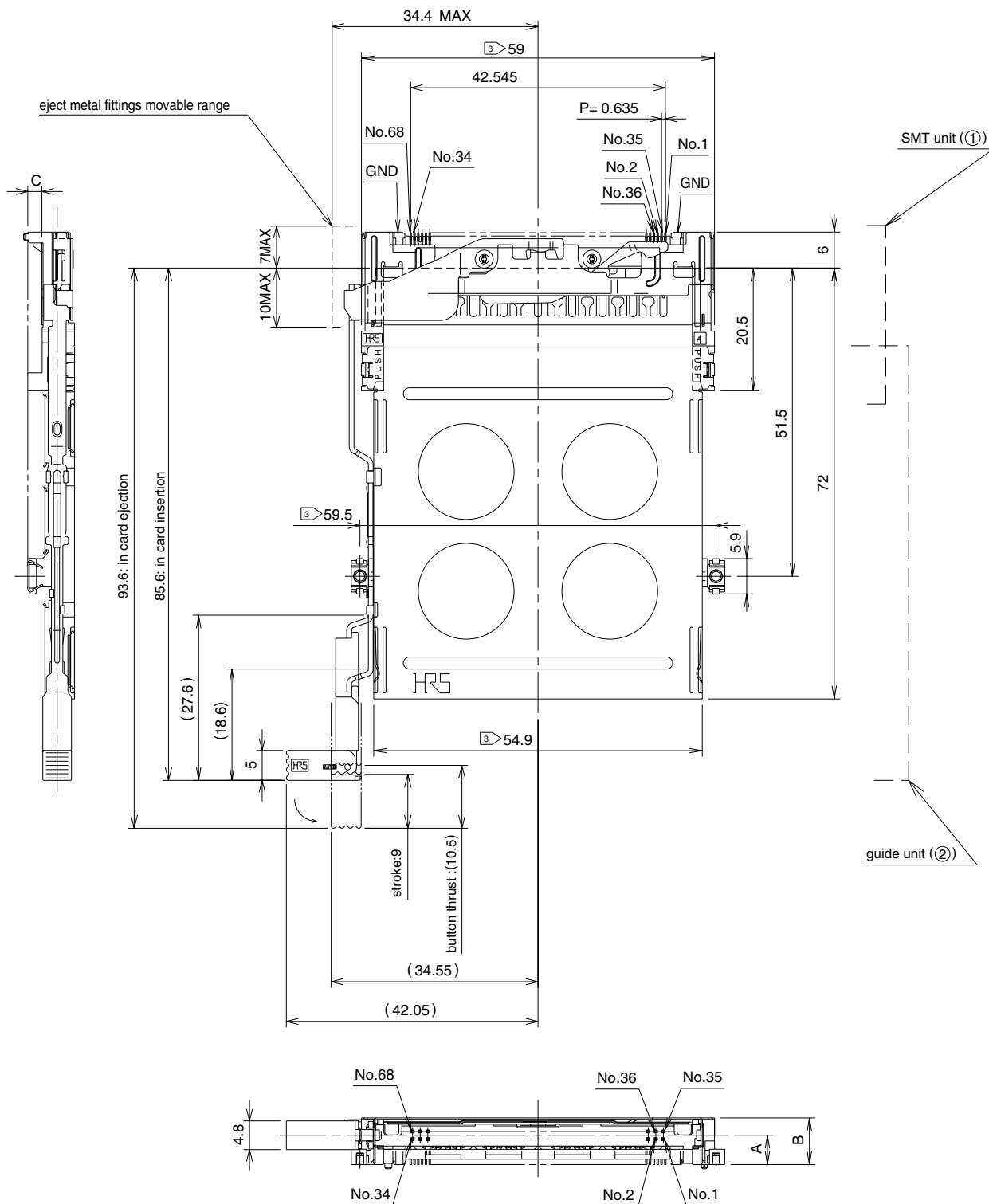
Note.1) This figure illustrates grouping of SMT unit(1) and guide unit(2) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Left flexible button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PLR-1.27SF-EJL	640-1004-5	IC11S-BUR-FEJL	640-1060-6	2.7	5.6	0.1	13.5
2.2mm	IC11SA-68PLR-1.27SF-EJL	640-1006-0	IC11SA-BUR-FEJL	640-1062-1	4.9	7.8	2.3	14

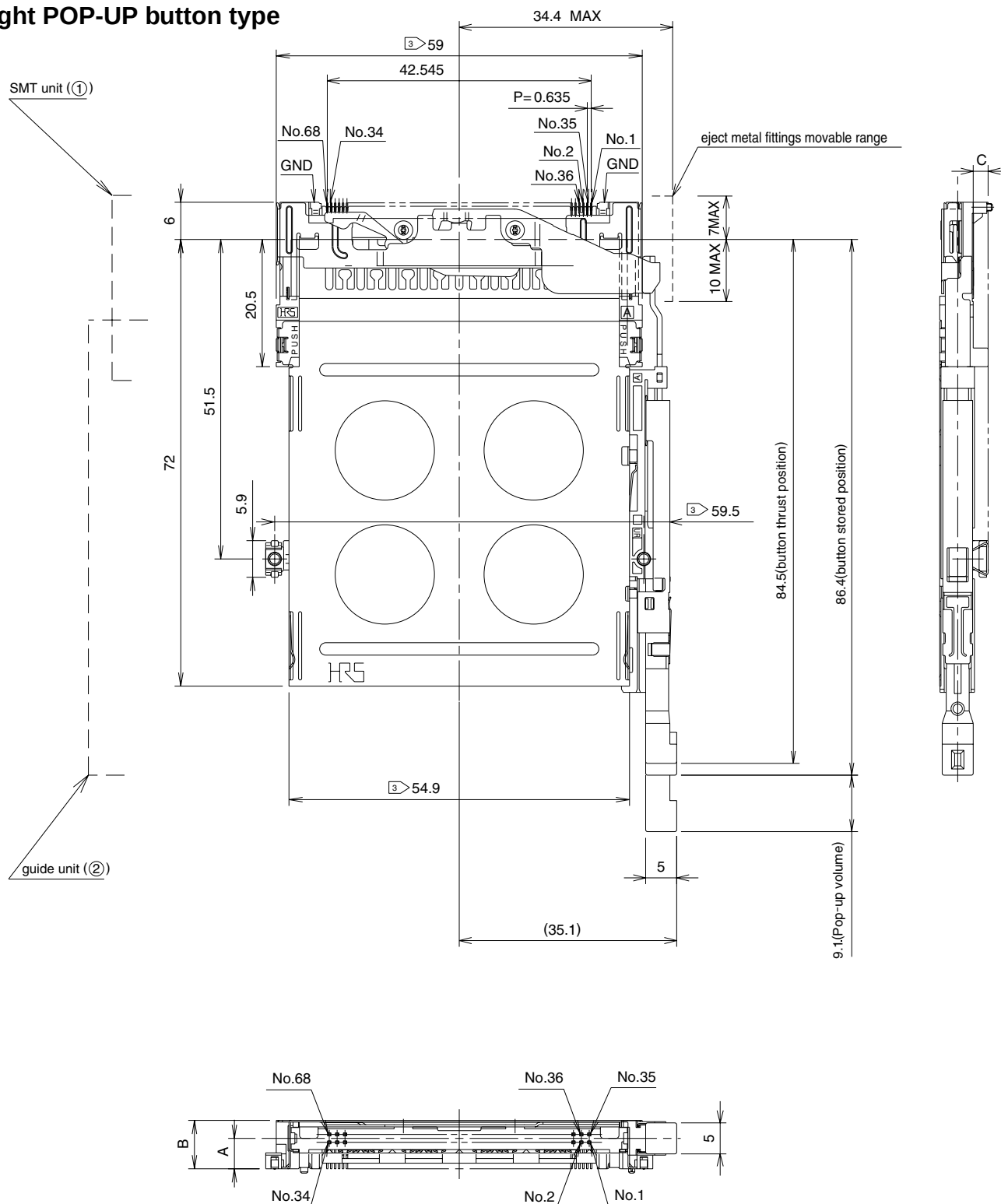
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Right POP-UP button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PLR-1.27SF-EJR	640-1003-2	IC11S-BUR-PEJR	640-1065-0	2.7	5.6	0.1	15.1
2.2mm	IC11SA-68PLR-1.27SF-EJR	640-1005-8	IC11SA-BUR-PEJR	640-1067-5	4.9	7.8	2.3	15.6

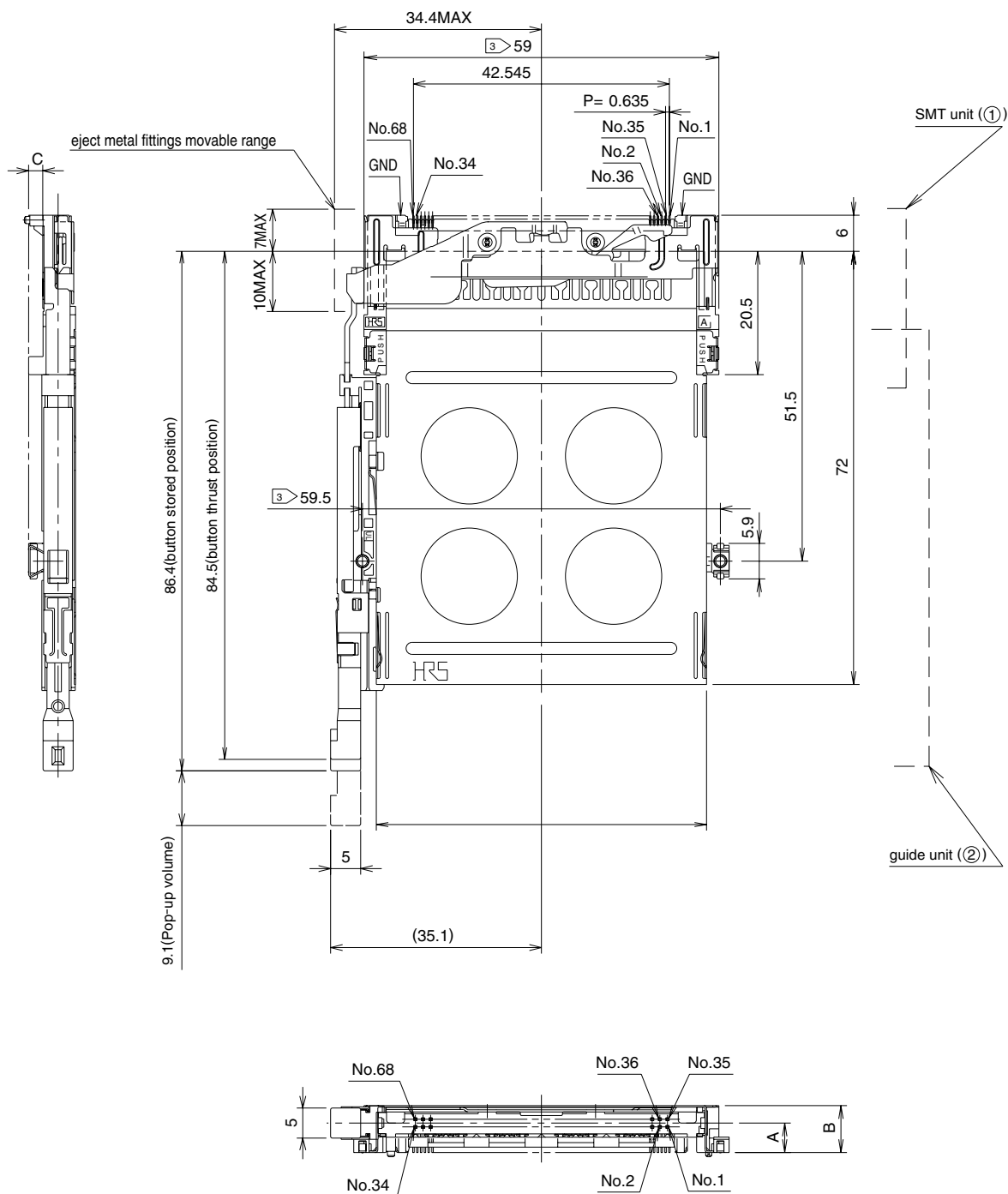
Note.1) This figure illustrates grouping of SMT unit(1) and guide unit(2) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Left POP-UP button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	Weight (g)
	Part Number	CL No.	Part Number	CL No.				
none	IC11S-68PLR-1.27SF-EJL	640-1004-5	IC11S-BUR-PEJL	640-1066-2	2.7	5.6	0.1	15.1
2.2mm	IC11SA-68PLR-1.27SF-EJL	640-1006-0	IC11SA-BUR-PEJL	640-1068-8	4.9	7.8	2.3	15.6

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

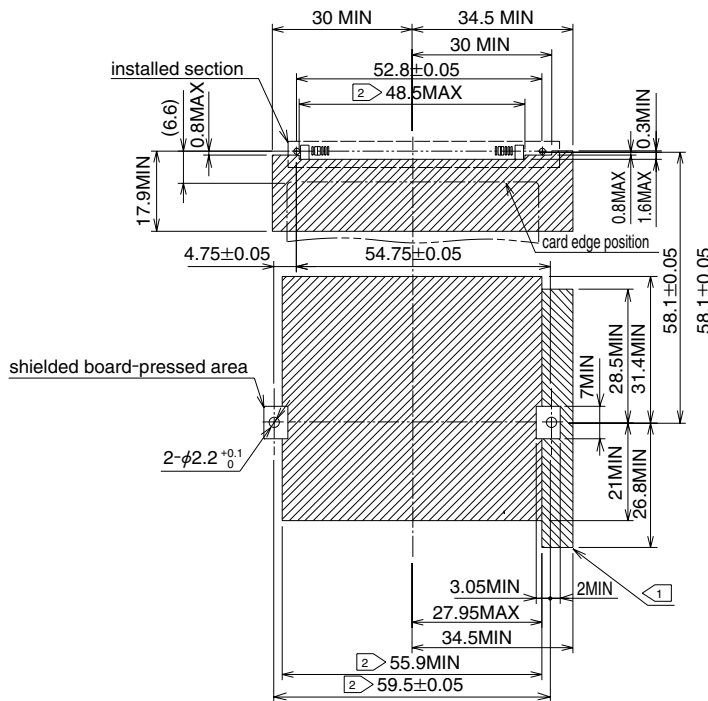
Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

■PCB mounting pattern

●Standard Type

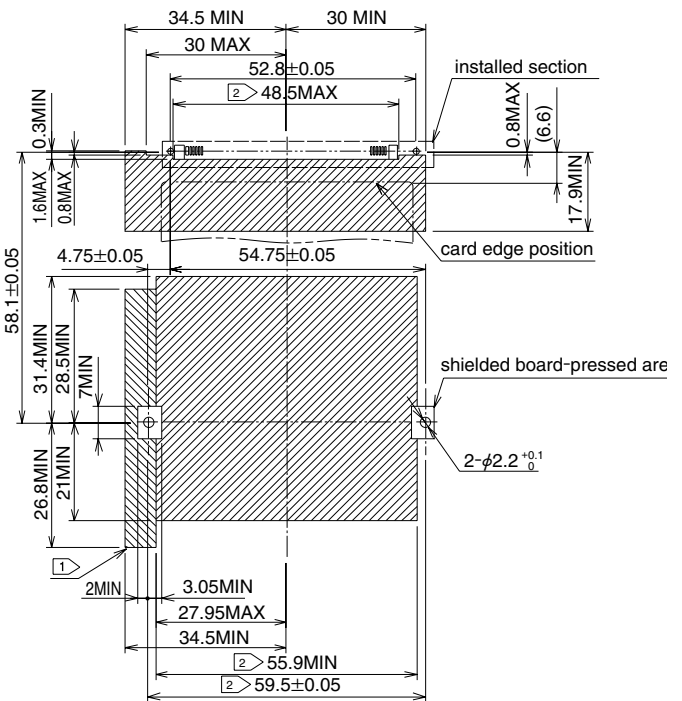
●Without standoff

(right button)



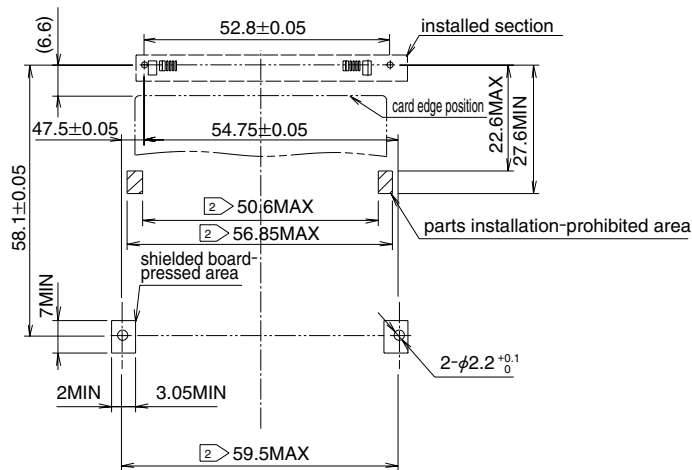
●Without standoff

(left button)



●Standoff 2.2mm

(common to both right and left buttons)



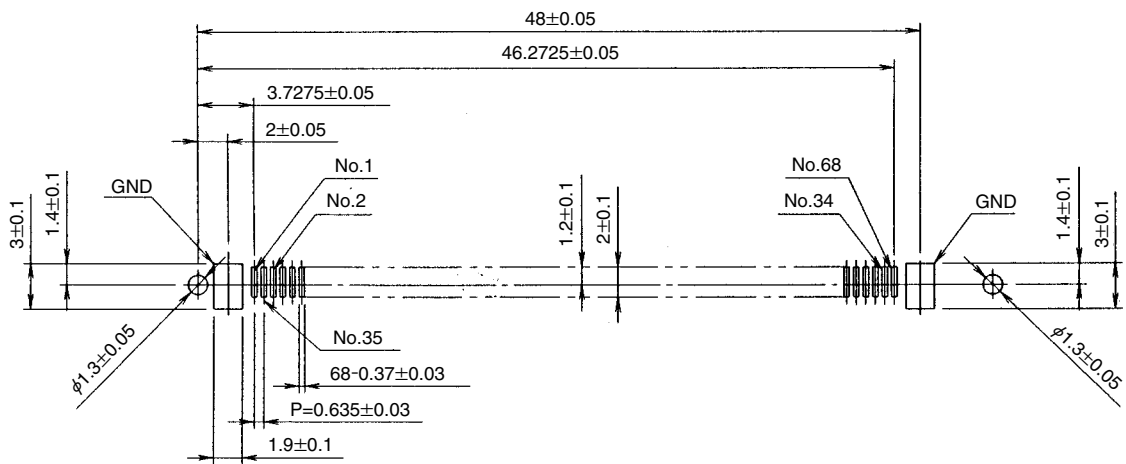
Note.1)  area and  area show the pattern-inhibited area.

However  area will be the pattern-inhibited area only when guide unit is "IC11S-BD-PEJ*".

Note.2) Indicated dimensions are symmetrical to the center of the card insertion slot.

◆PCB mounting pattern (Enlarged)

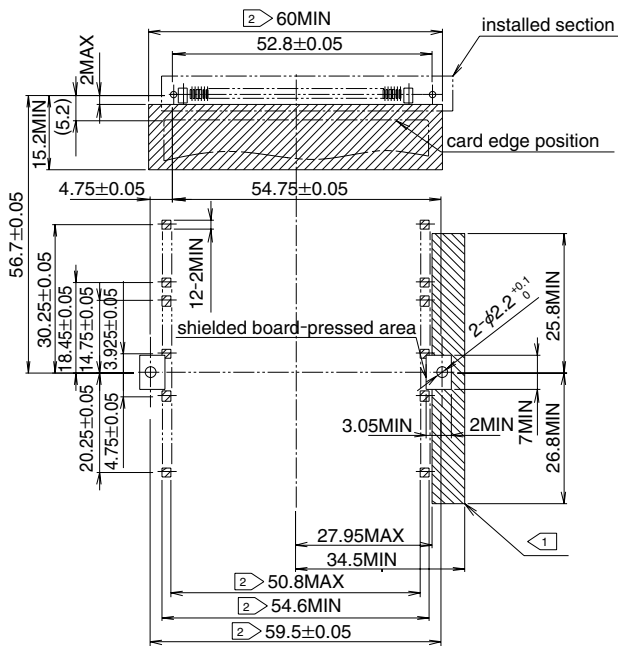
●Standard type



●Reverse Type

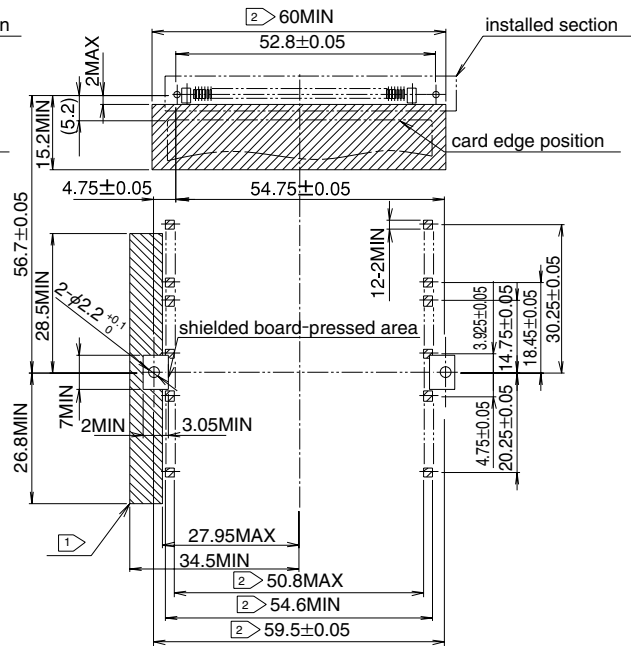
●Without standoff

(right button)



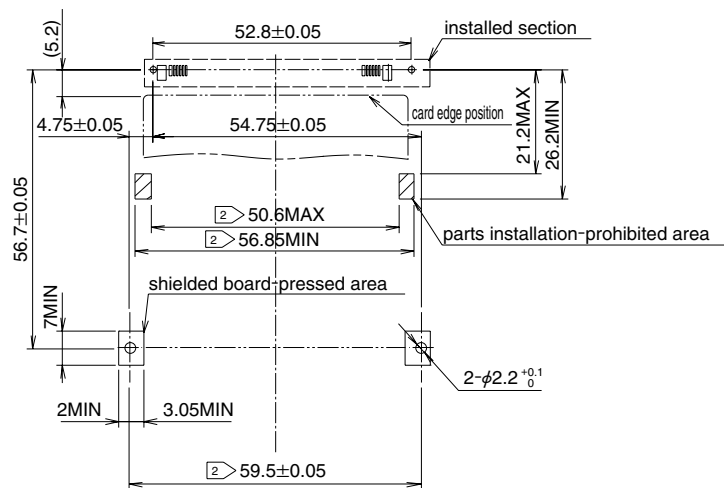
●Without standoff

(left button)



●Standoff 2.2mm

(common to both right and left buttons)



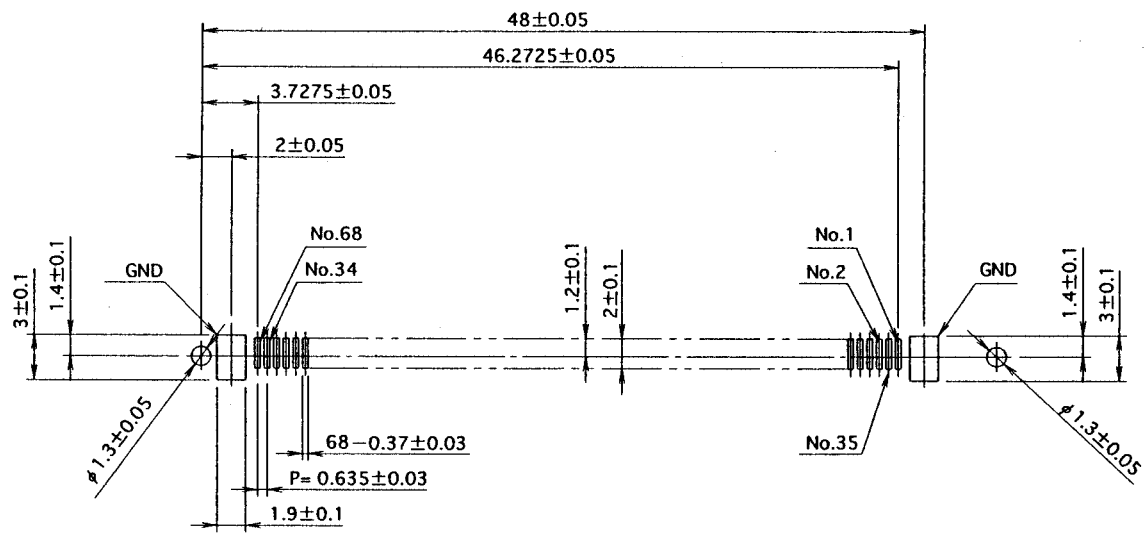
Note.1)  area and  area show the pattern-inhibited area.

However  area will be the pattern-inhibited area only when guide unit is "IC11S-BUR-PEJ".

Note.2) Indicated dimensions are symmetrical to the center of the card insertion slot

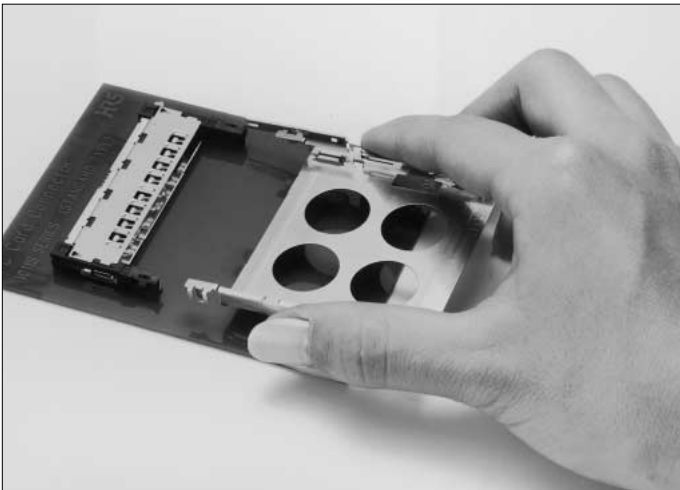
◆PCB mounting pattern (Enlarged)

●Reverse type

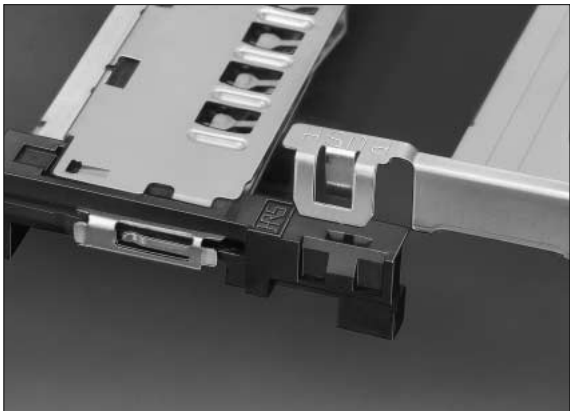
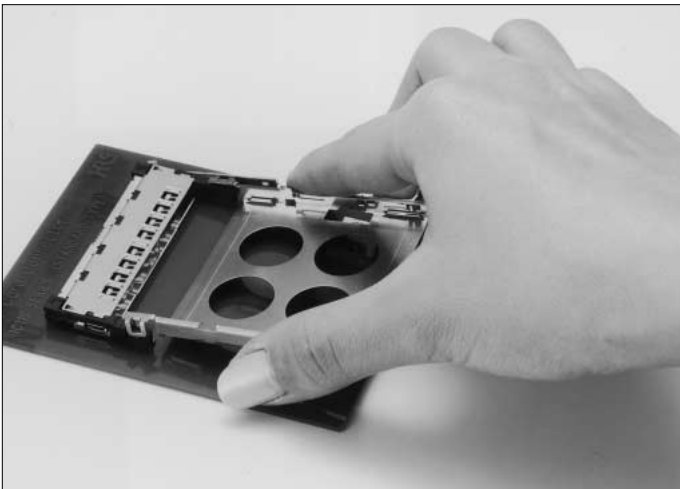


■How To Install In Board(Standard Type)

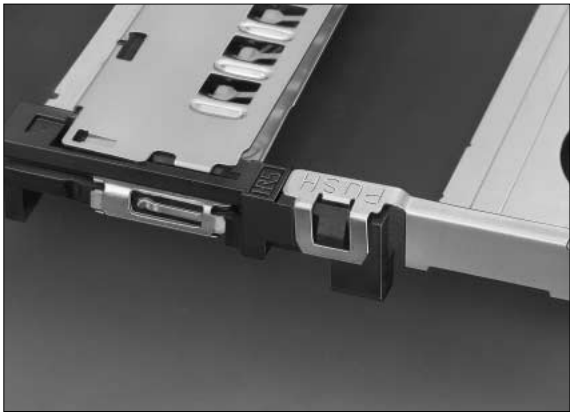
(1)Install SMT unit.



(2)Position the lock section of guide unit into the hole of SMT unit.



(3)Press the lock top of guide unit to push into SMT unit securely (i.e., until clicked.)



(Note.) Avoid pressing any section other than lock top because it may cause guide plate deformation.

(4)Screw 2 spots to guide unit from the back side of board.

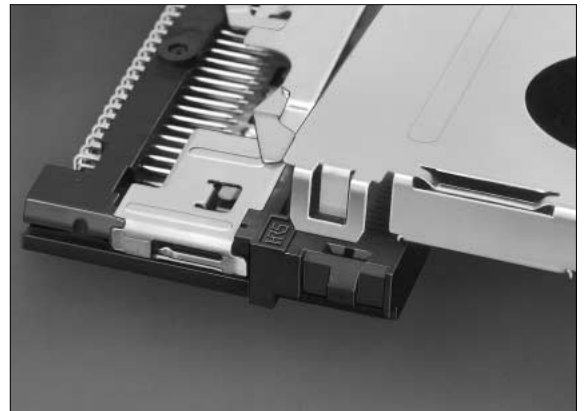
Screw designation	Pitch	Recommended tightening torque
M2	0.4	1.5 to 2.0 (kgf • cm)

■How To Install In Board(Reverse Type)

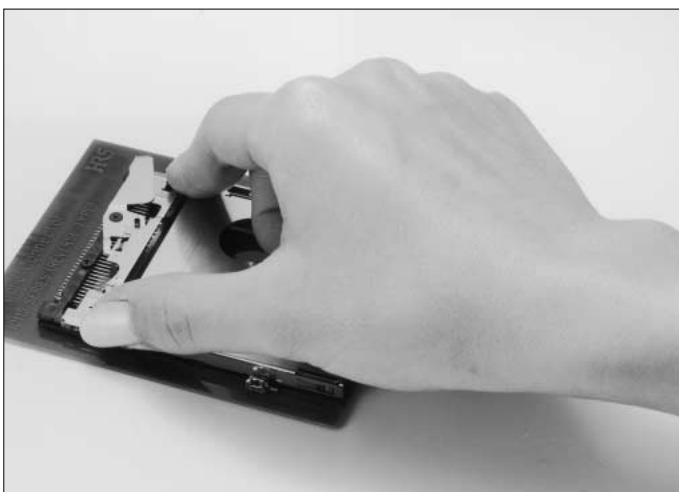
(1)Install SMT unit.



(2)Position the lock section of guide unit into the hole of SMT unit.



(3)Press the lock top of guide unit to push into SMT unit securely (i.e., until clicked.)



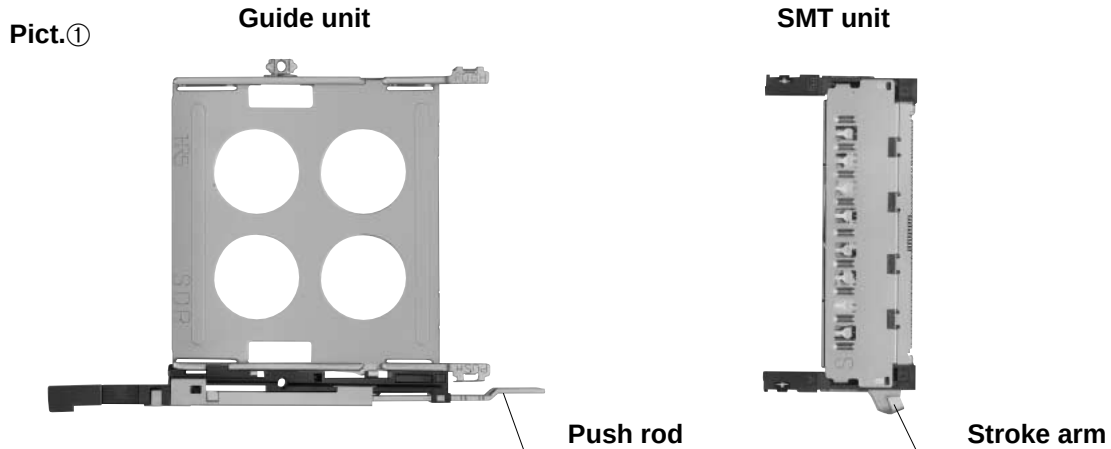
(Note.) Avoid pressing any section other than lock top because it may cause guide plate deformation.

(4)Screw 2 spots to guide unit from the back side of board.

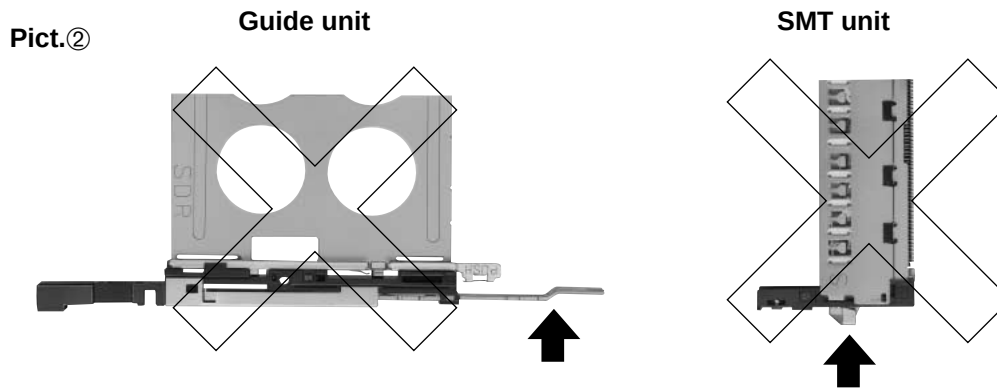
Screw designation	Pitch	Recommended tightening torque
M2	0.4	1.5 to 2.0 (kgf • cm)

■PreCautions In Installation To Boards

1. After installation of SMT unit to boards, verify that the stroke arm of SMT unit and the push rod of guide unit are located on the positions shown in fig.①.
Also note that guide unit cannot be solder reflowed.



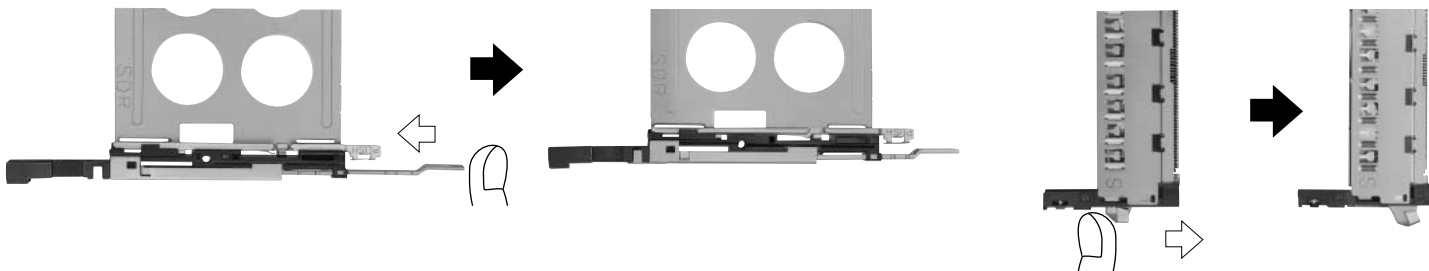
2. Note that the stroke arm of SMT unit and the push rod of guide unit cannot be combined when located in the position as shown in fig.②.



If located in the position shown in fig.② move it to the position shown in fig. ① by fingers.

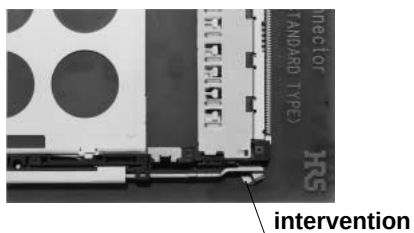
Guide unit

SMT unit

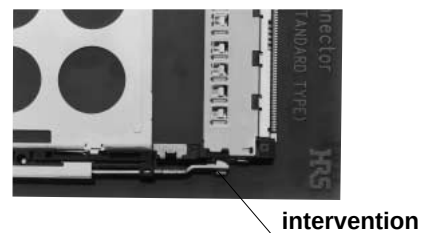


3. After SMT unit and guide unit are combined, state will be found as follows :

●When the push rod was pressed:

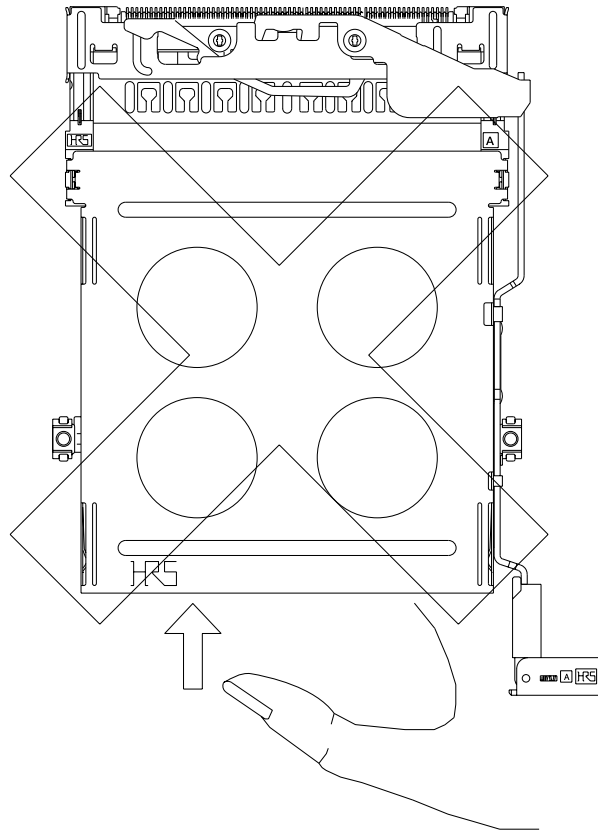


●When the push rod was extracted:

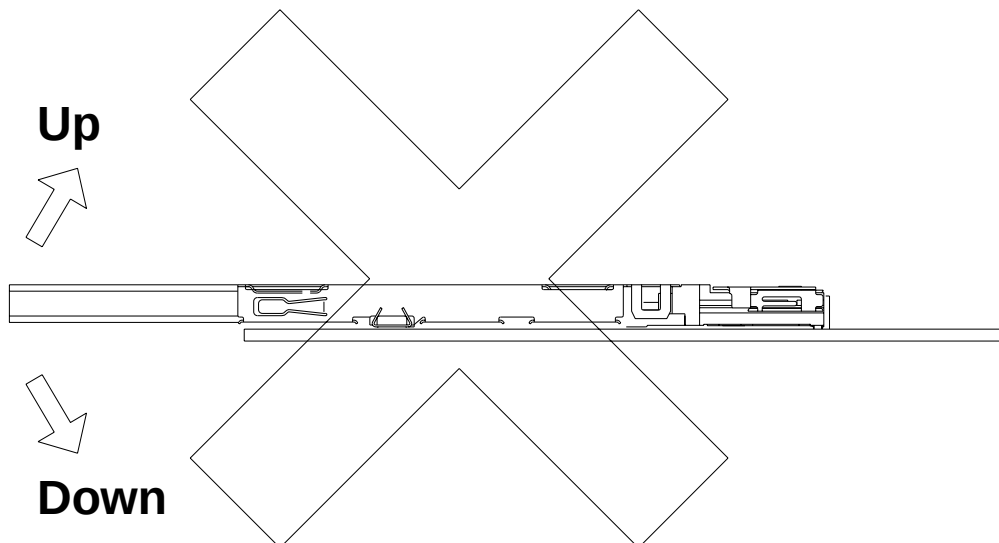


■Pre Caution In Handling

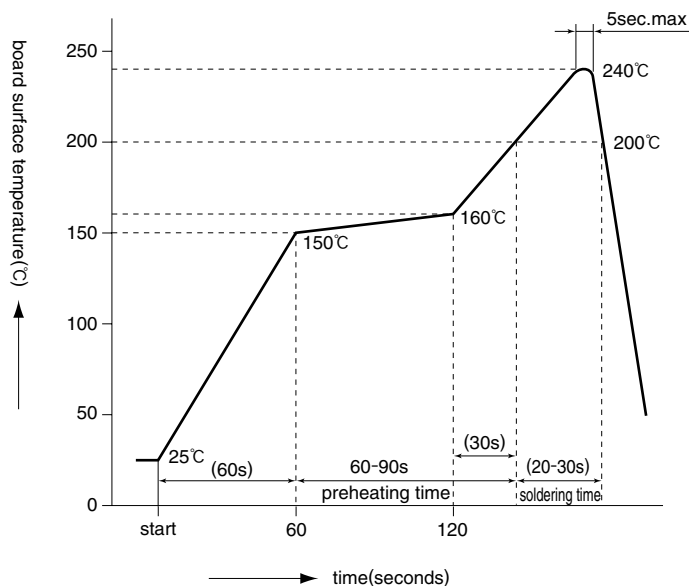
Guide plate is metallic, having some sharp-edged portions. Handle carefully to prevent injury to fingers.



Do not wrench the card up and down severely in the midst of insertion. This may cause damage to the connectors or cards.



■ Temperature Profile



Applicable Conditions

Reflow system : IR reflow

Solder : Paste type 63 Sn/37 Pb
(Flux content 9 wt%)

Test board Glass epoxy 60mm x 60mm x 1.6 mm

Metal mask thickness: 0.15 mm

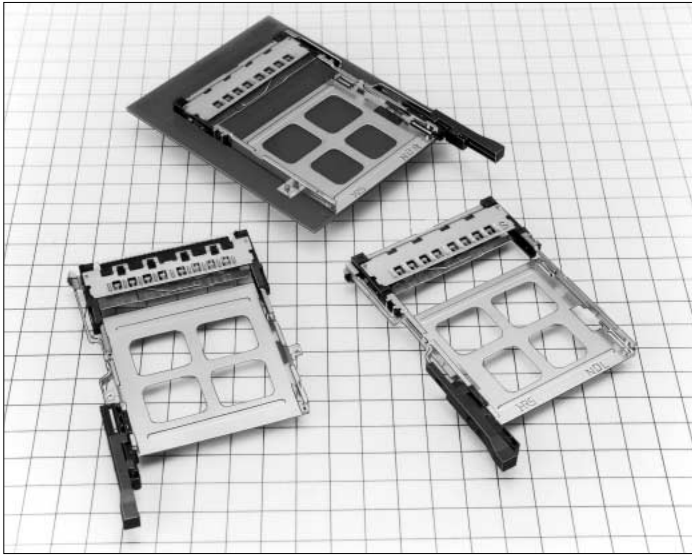
Recommended temperature profile.

The temperature may be slightly changed according to the solder paste type and amount.

Single Slot SMT Connectors For Card-Bus Based PC Cards

IC11S Series (New POP-UP Button)

PC Card Standard Compliant



Reduced height : 5.6mm high



■Features

1. PC Card Standard compliant:

- Grounding is required to meet the high speed signal requirements of the PC card standard. Grounding reliability is achieved with a grounding plate and 8 grounding contacts.
- Type I , type II and type III cards are covered.
- Terminals for ground clipping are provided.

2. Reduced pattern-inhibited area

Pattern-inhibited area is reduced, compared to our conventional product.

3. Light-Weight

Approx. 12% of weight reduced.

Compared to conventional type, it only weighs 13.1g for standard type with 0mm standoff.

4. Reduced Height:

Connector height is minimized to 5.6mm, making possible thinner product designs.

5. Eject mechanism with high-level functionality

Hirose Electric's original ejection mechanism provides an higher degree of card ejection over existing products. This improves the operational qualities of card removal. (Patents pending)

6. Wide Variety of Options Available

- Standard type mounts to the top of the PC board and reverse type mounts on the underside of the board
- Three types of eject buttons; rigid, flexible and POP-UP. All types can be installed on the right or left side of the ejector.
- Available with standoff to utilize space under the connector for mounting other parts.

Wide variety of options

(1)Board Mounting

- ①Standard type
- ②Reverse type

(2)Position of eject buttons

- ①Right
- ②Left

(3)Standoffs

- ① 0mm
- ②2.2mm



Standard type



Reverse type

■Product Specifications

Ratings	Current rating	0.5A	Operating temperature	-55°C to +85°C(Note.1)	Storage temperature	-40°C to +70°C(Note.2)
	Voltage rating	125V AC	Operating humidity	Relativehumidity 95% or less (With no dew-fall)	Storage humidity	40% to 70%(Note.2)

Item	Specification	Conditions
1.Insulation resistance	1000M ohms min.	500V DC
2.Withstanding voltage	No flashover or insulation breakdown.	500V AC
3.Contact resistance	60m ohms 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 147 m/s ² (peak), 4 hours in each of the 3 directions.
5.Humidity (Steady state)	Insulation resistance: 100M ohms min.	96 hours at temperature of 40°C and humidity of 90% to 95%
6.Temperature cycle	Insulation resistance: 100M ohms min.	(-55°C:30min.→+5°C to 35°C:MAX 5min→+85°C:30min→+5-35°C:MAX 5min.) 5 cycles
7.Durability (Insertion/withdrawal)	Variations from initial contact resistance: 20m ohms max.	10000 cycles at 400 to 600 cycles per hour
8.Resistance to Soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile
		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.

■Materials

●SMT unit

Parts		Material	Finish	Remarks
Insulator		PPS	Color : Black	UL94V-0
Terminal	Card connected section	Brass	Contact section: gold plating Lead section: solder plating	——
	Ground plate	Phosphor bronze	Contact section: gold plating Lead section: solder plating	——
Eject metal fittings		Stainless steel	——	——

●Guide unit

Description		Material	Finish	Remarks
Guide plate		Stainless steel	——	——
Push rod		Stainless steel	——	——
Eject Button	Resin section	PBT	Color : Black	UL94V-0
	Spring	Steel	——	——
	Cam	Zinc alloy	——	——

■ Ordering Information

● SMT Unit

IC11S A - 68 PLR - 1.27SF - EJ R
① ② ③ ④ ⑤ ⑥ ⑦

① Series name : IC11S	⑤ 1.27SF : 1.27mm pitch SMT connector
② Standoff type Blank : none A : 2.2mm	⑥ With ejector
③ Number of contacts : 68	
④ Board Mounting Method: PL : standard type PLR : reverse type	⑦ Eject button positions R : right L : left

● Guide Unit

IC11S A - BUR - PNEJ R
⑧ ⑨ ⑩ ⑪ ⑫

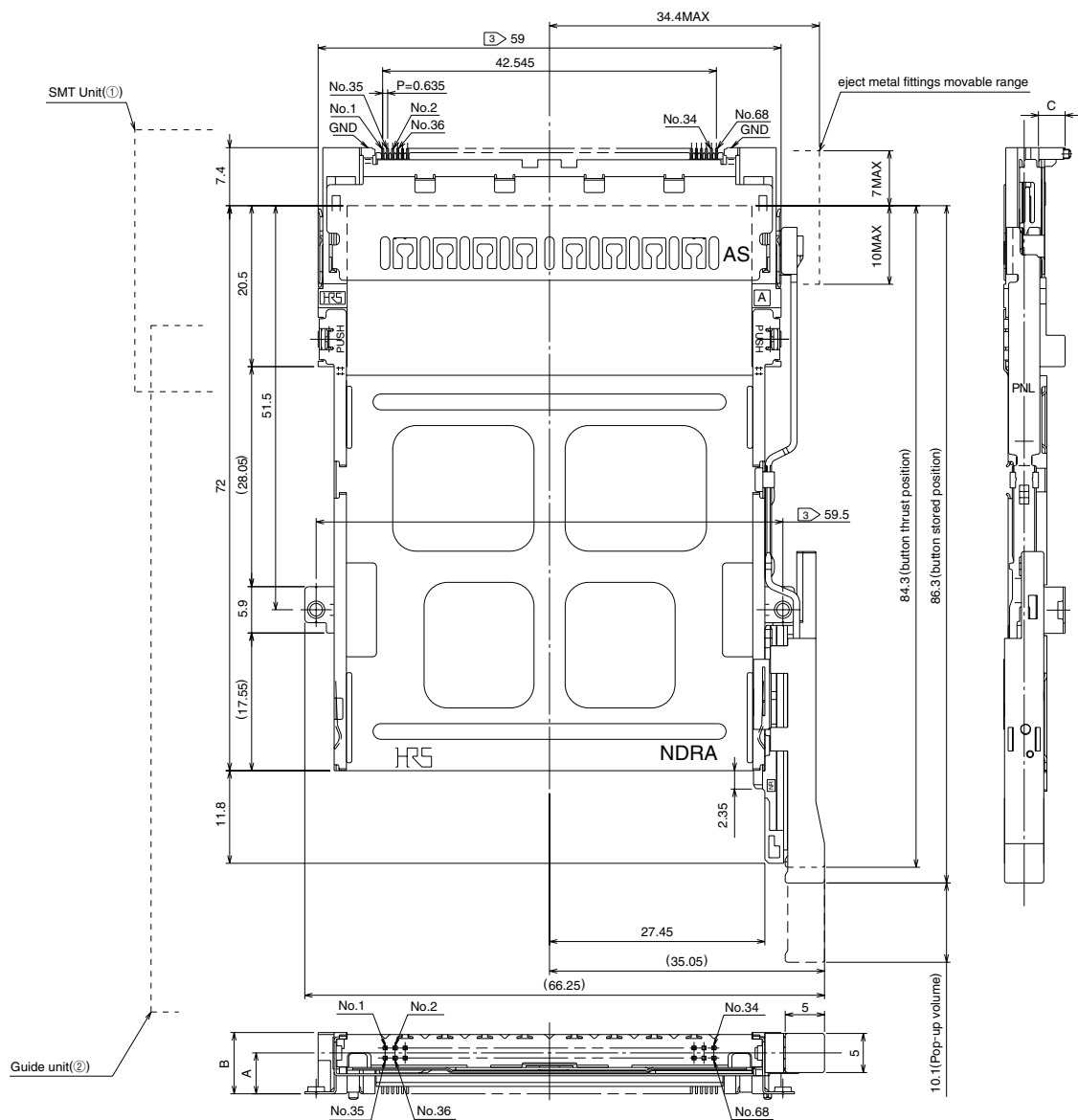
⑧ Series name : IC11S	⑪ Eject button type PNEJ : POP-UP button
⑨ Standoff type Blank: none A : 2.2mm	
⑩ Board Mounting Method BD : standard type BUR : reverse type	⑫ Eject button positions R : right L : left

(Note.) IC11S Series will be used in combination of SMT unit with guide unit. When using, please select the same type for the following items. Note that other combinations cannot be used.

- Series name
- (①⇔⑧)
- Standoff type
- (②⇔⑨)
- Board Mounting Method
- (④⇔⑩)
- Eject button positions
- (⑦⇔⑫)

■Standard

Right POP-UP button type



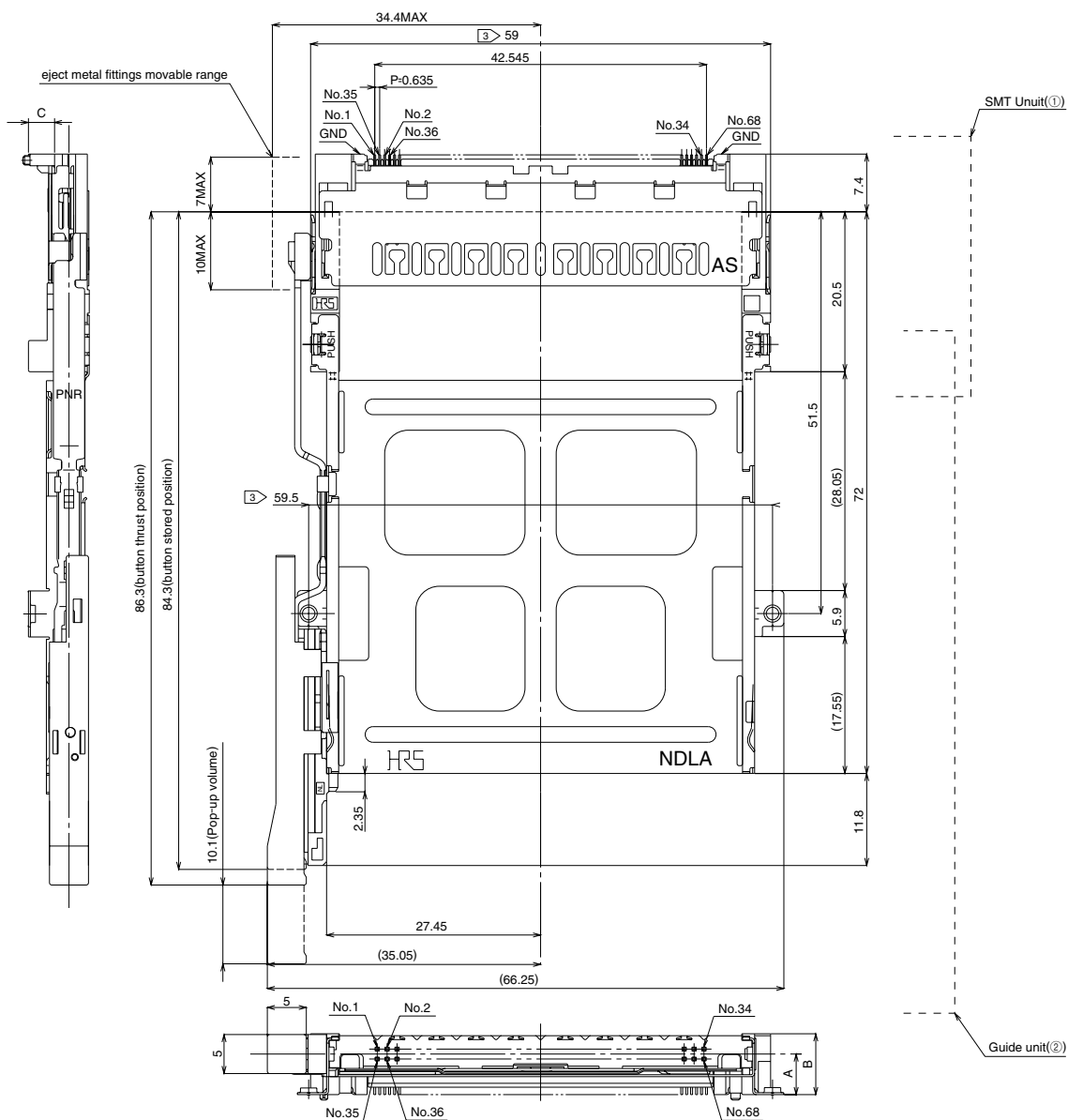
Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	mass (g)
	Part Number	CL No.	Part Number	CL No.				
0mm	IC11S-68PL-1.27SF-EJR	640-1007-3	IC11S-BD-PNEJR	640-1251-4	3	5.6	0.1	13.1
2.2mm	IC11SA-68PL-1.27SF-EJR	640-1009-9	IC11SA-BD-PNEJR	640-1253-0	5.2	7.8	2.3	13.6

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Standard
Left POP-UP button type

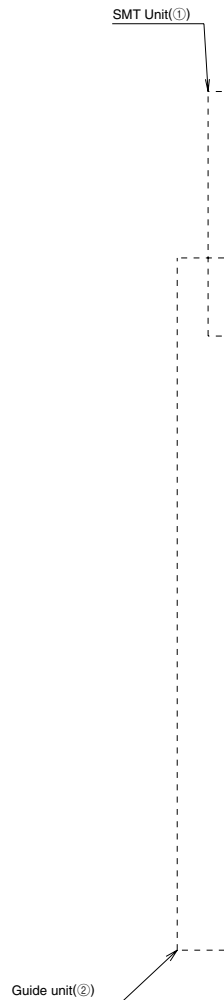


Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	mass (g)
	Part Number	CL No.	Part Number	CL No.				
0mm	IC11S-68PL-1.27SF-EJL	640-1008-6	IC11S-BD-PNEJL	640-1252-7	3	5.6	0.1	13.1
2.2mm	IC11SA-68PL-1.27SF-EJL	640-1010-8	IC11SA-BD-PNEJL	640-1254-2	5.2	7.8	2.3	13.6

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.
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Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Right POP-UP button type



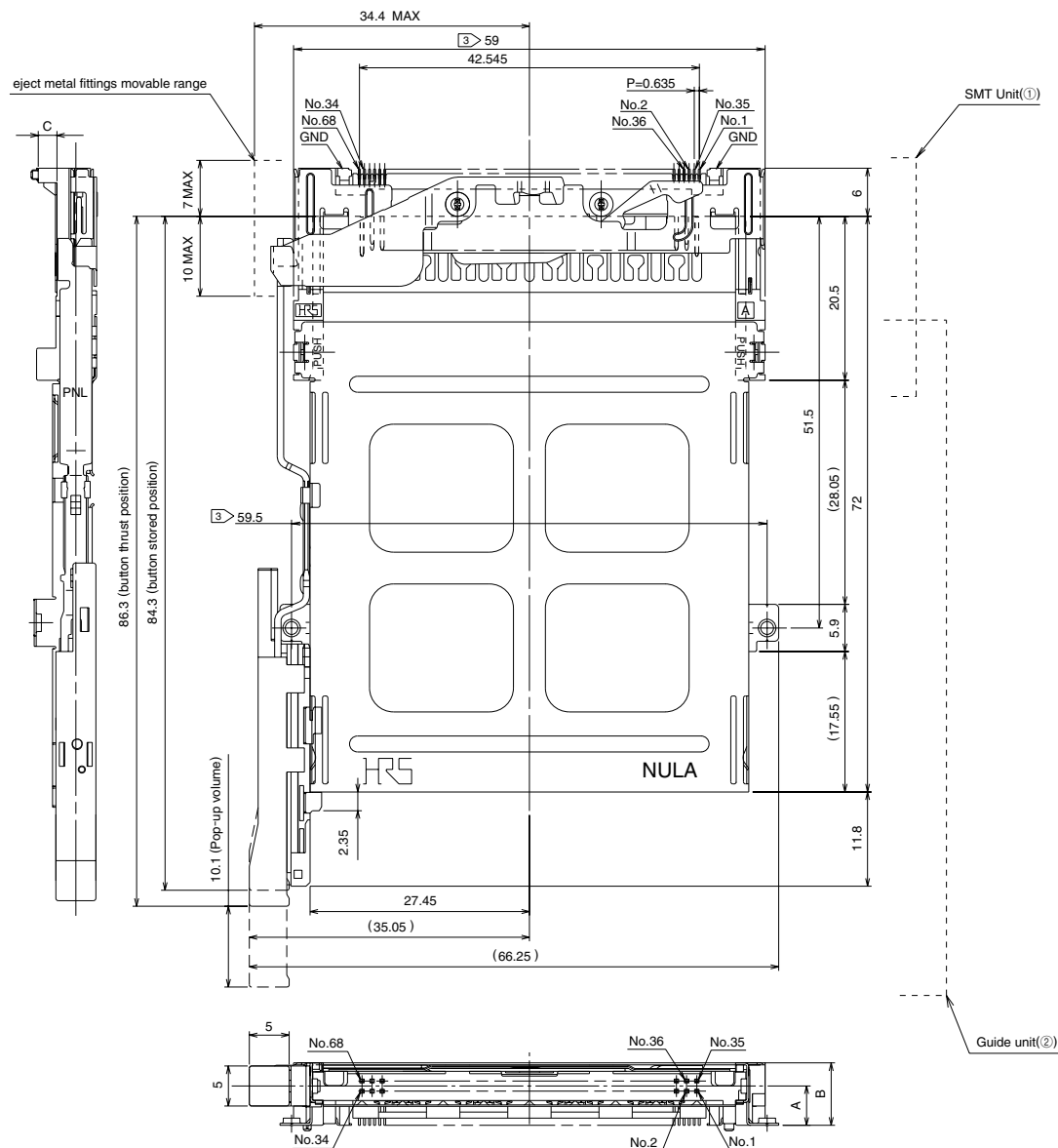
Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.
 Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".
 Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

Reverse

Left POP-UP button type

Reverse

Left POP-UP button type



Standoff type	①SMT unit		②Guide unit		A (mm)	B (mm)	C (mm)	mass (g)
	Part Number	CL No.	Part Number	CL No.				
0mm	IC11S-68PLR-1.27SF-EJL	640-1004-5	IC11S-BUR-PNEJL	640-1256-8	2.7	5.6	0.1	13.3
2.2mm	IC11SA-68PLR-1.27SF-EJL	640-1006-0	IC11SA-BUR-PNEJL	640-1258-3	4.9	7.8	2.3	13.7

Note.1) This figure illustrates grouping of SMT unit(①) and guide unit(②) together.

Note.2) Dimensions for card fitting are in accordance with "PC Card Standard".

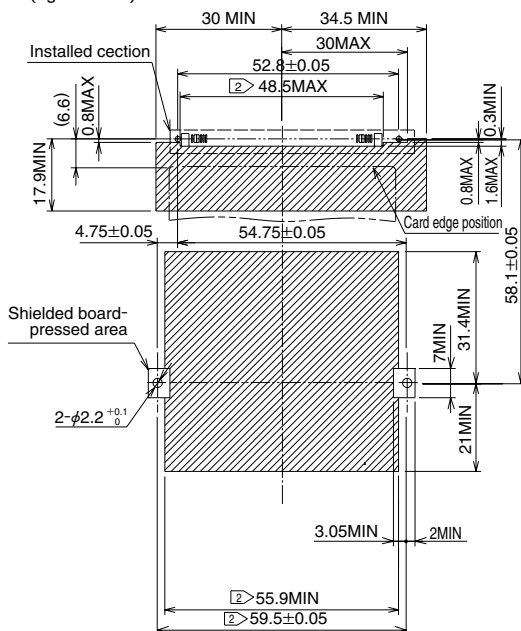
Note.3) Indicated dimensions are symmetrical to the center of the card insertion slot.

◆PCB mounting pattern

●Standard Type

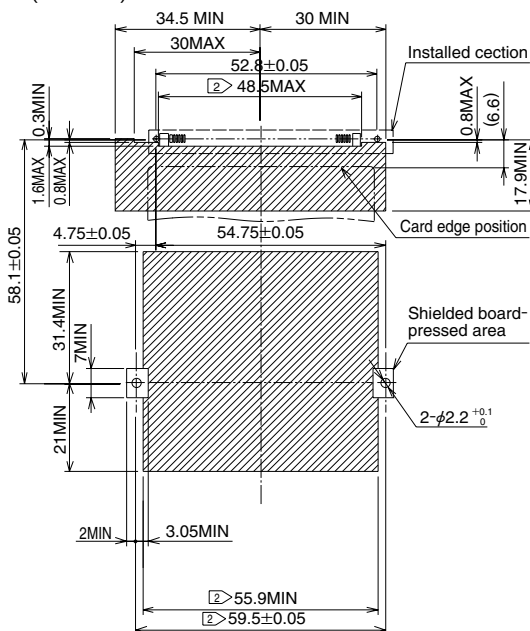
●Without standoff

(right button)



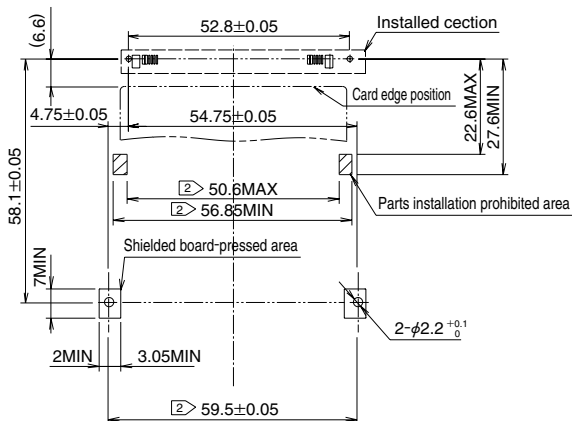
●Without standoff

(left button)



●Standoff 2.2mm

(common to both right and left buttons)

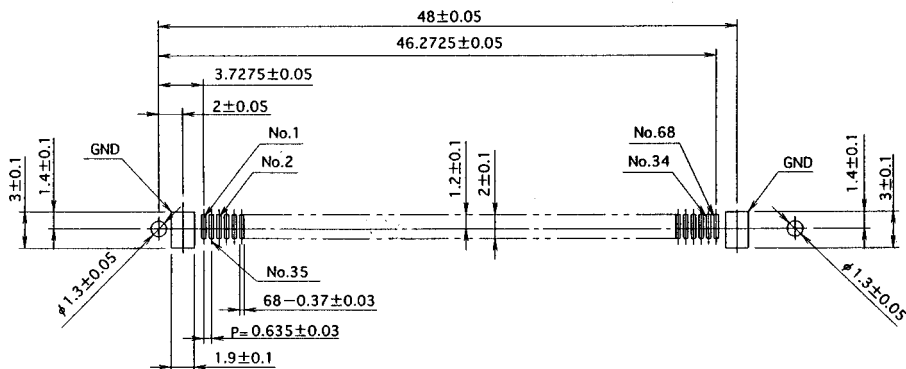


Note.1) area show the pattern-inhibited area.

Note.2) Indicated dimensions are symmetrical to the center of the card insertion slot.

◆PCB mounting pattern (Enlarged)

●Standard type

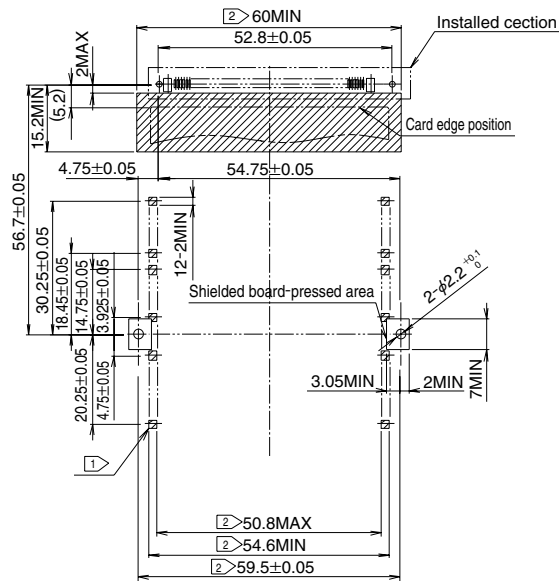


◆PCB mounting pattern

●Reverse Type

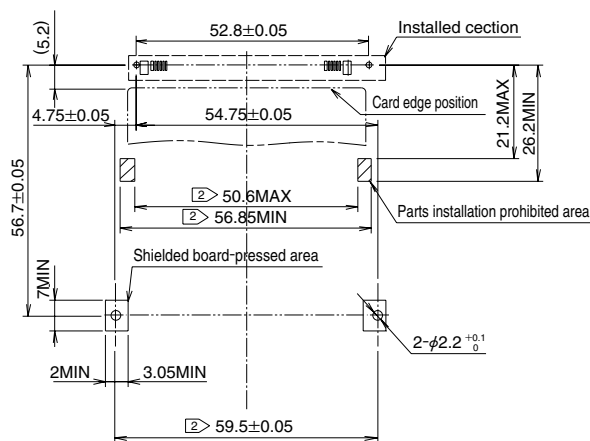
●Without standoff

(common to both right and left buttons)



●Standoff 2.2mm

(common to both right and left buttons)

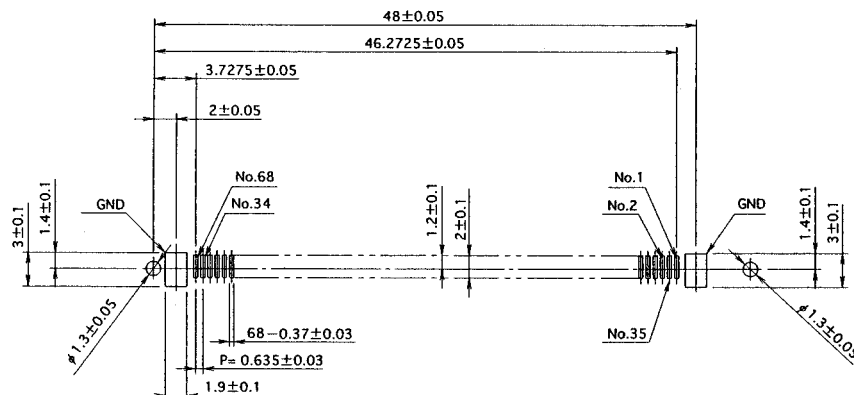


Note.1)  area show the pattern-inhibited area.

Note.2) Indicated dimensions are symmetrical to the center of the card insertion slot.

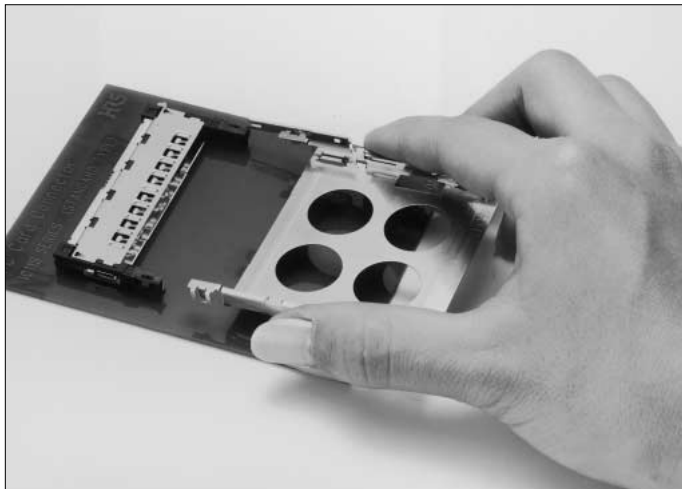
◆PCB mounting pattern (Enlarged)

●Reverse type

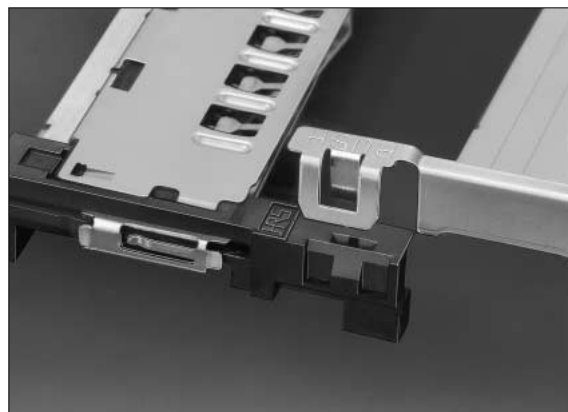
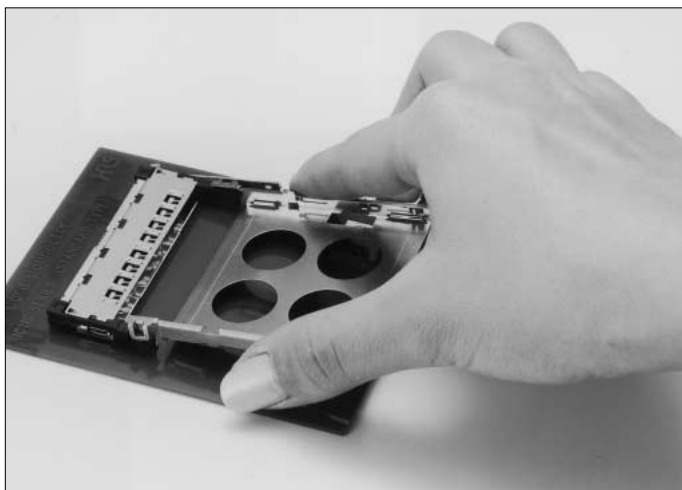


◆How To Install In Board(Standard Type)

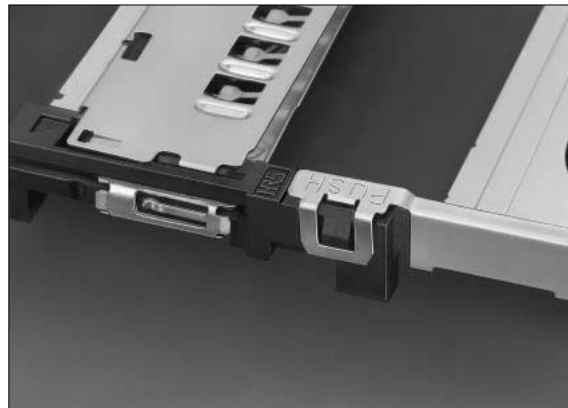
(1)Install SMT unit.



(2)Position the lock section of guide unit into the hole of SMT unit.



(3)Press the lock top of guide unit to push into SMT unit securely (i.e., until clicked.)



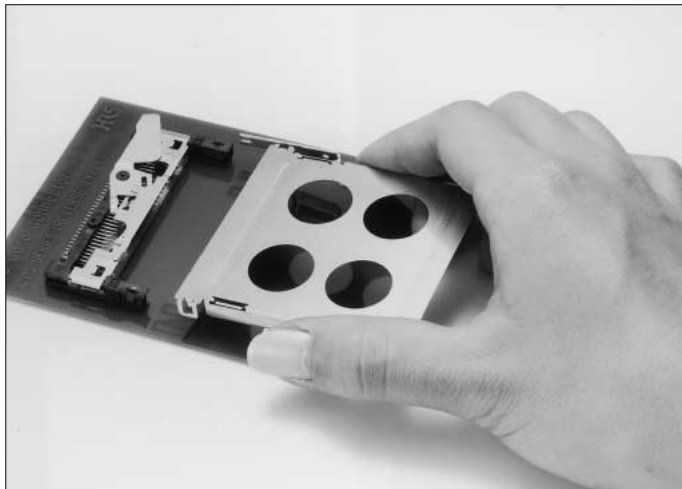
(Note.) Avoid pressing any section other than lock top because it may cause guide plate deformation.

(4)Screw 2 spots to guide unit from the back side of board.

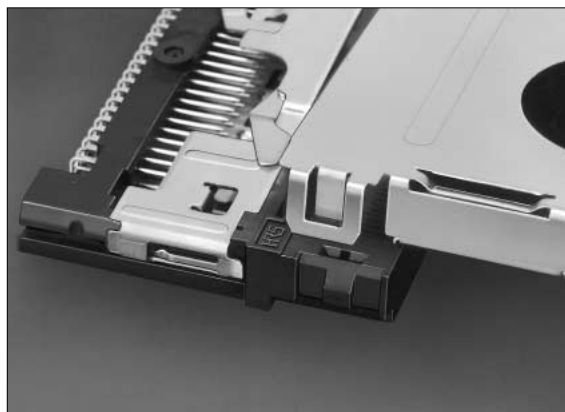
Screw designation	Pitch	Recommended tightening torque
M2	0.4	0.14 to 0.18 (N • m)

◆How To Install In Board(Reverse Type)

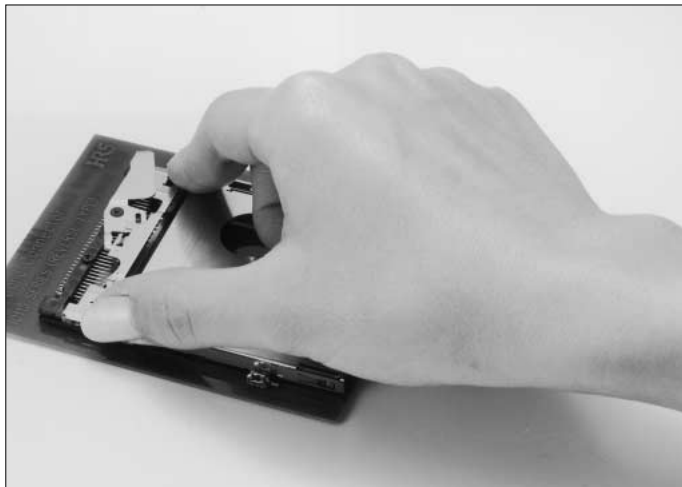
(1)Install SMT unit.



(2)Position the lock section of guide unit into the hole of SMT unit.



(3)Press the lock top of guide unit to push into SMT unit securely (i.e., until clicked.)



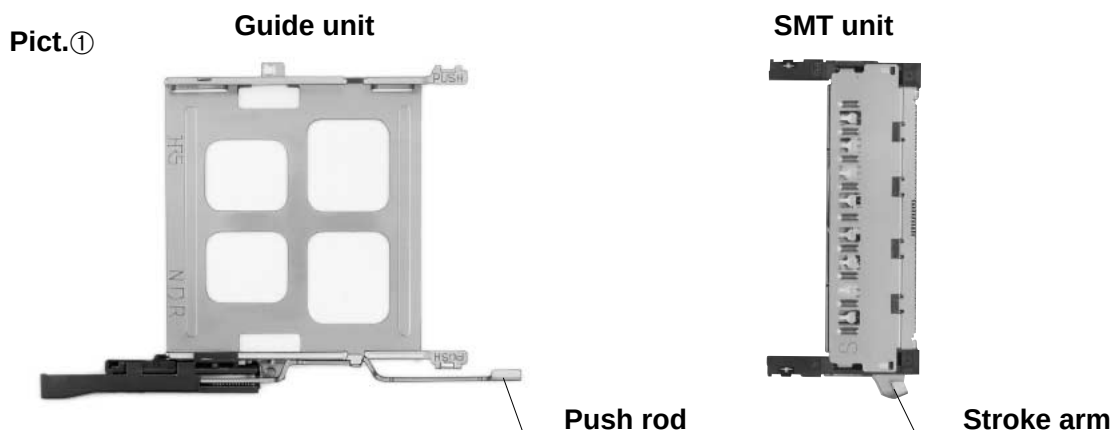
(Note.) Avoid pressing any section other than lock top because it may cause guide plate deformation.

(4)Screw 2 spots to guide unit from the back side of board.

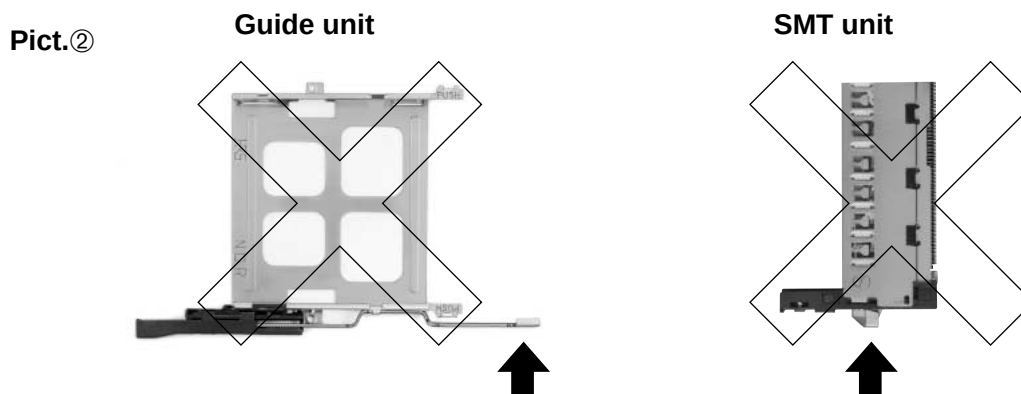
Screw designation	Pitch	Recommended tightening torque
M2	0.4	0.14 to 0.18 (N • m)

◆Cautions In Installation To Boards

1. After installation of SMT unit to boards, verify that the stroke arm of SMT unit and the push rod of guide unit are located on the positions shown in fig.①.
Also note that guide unit cannot be solder reflowed.



2. Note that the stroke arm of SMT unit and the push rod of guide unit cannot be combined when located in the position as shown in fig.②.

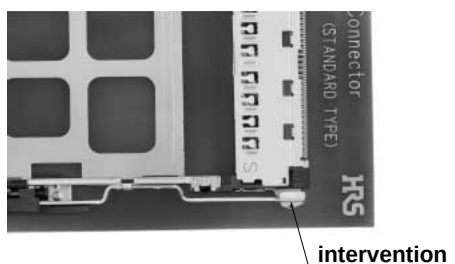


If located in the position shown in fig.② move it to the position shown in fig. ① by fingers.

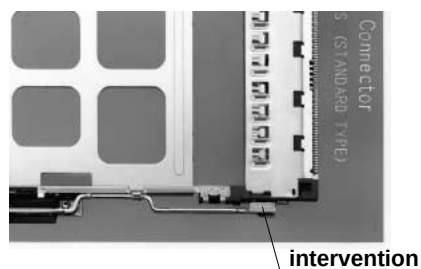


3. After SMT unit and guide unit are combined, state will be found as follows :

●When the push rod was pressed:

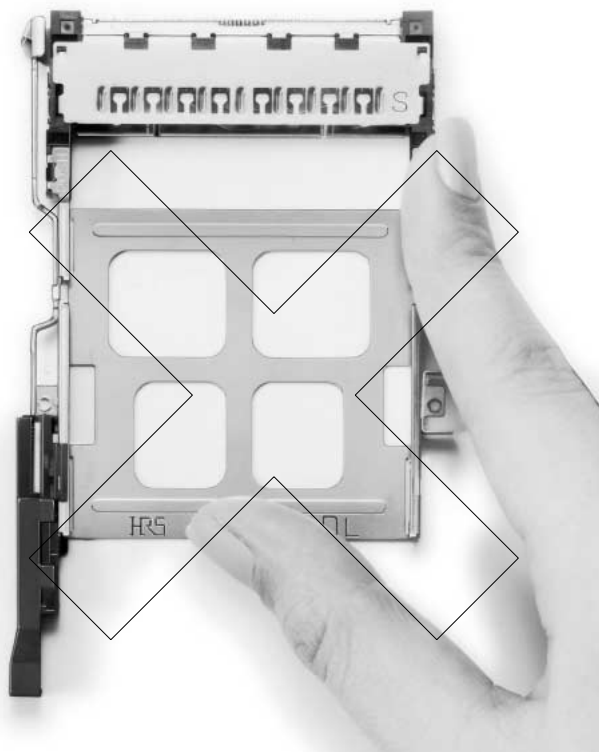


●When the push rod was extracted:

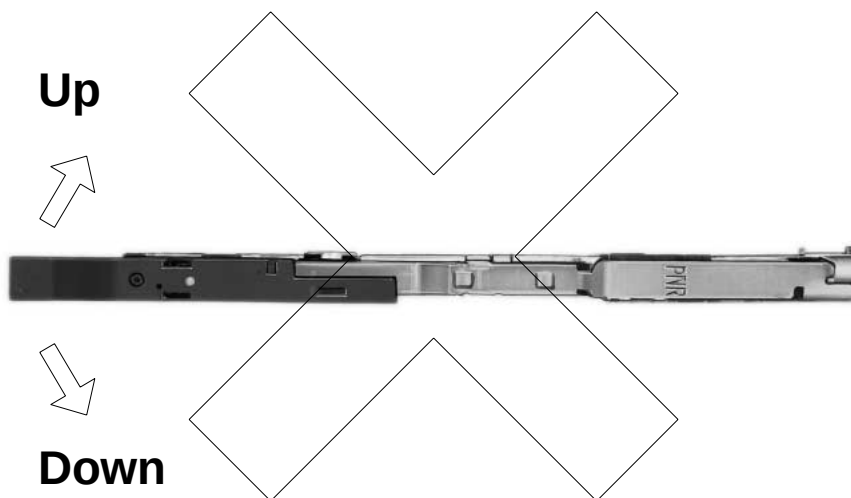


◆ Caution In Handling

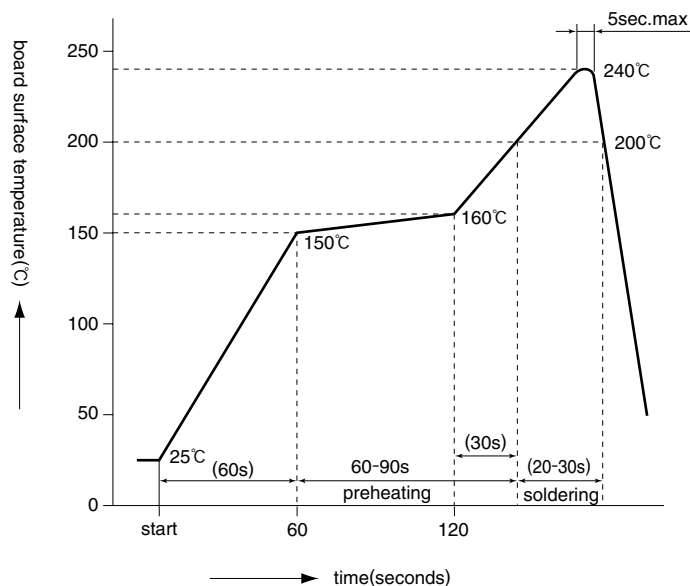
Guide plate is metallic, having some sharp-edged portions. Handle carefully to prevent injury to fingers.



Do not wrench the card up and down severely in the midst of insertion. This may cause damage to the connectors or cards.



◆ Installation Temperature Profile



Applicable Conditions

Reflow system : IR reflow

Solder : Paste type 63 Sn/37 Pb
(Flux content 9 wt%)

Test board Glass epoxy 60mm x 60mm x 1.6 mm

Metal mask thickness: 0.15 mm

Recommended temperature profile.

The temperature may be slightly changed according to the solder paste type and amount.