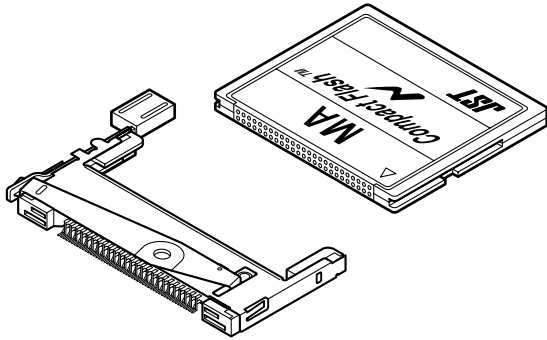




# CF CARD CONNECTOR MA Type



1.27mm pitch/50-circuit CF card connector



- Socket / Dual-row straddle type, SMT type
- Card frame / for type I cards
- Adapter / for type I, II cards
- Header / for type I, II cards
- Ejector / for type I, II cards

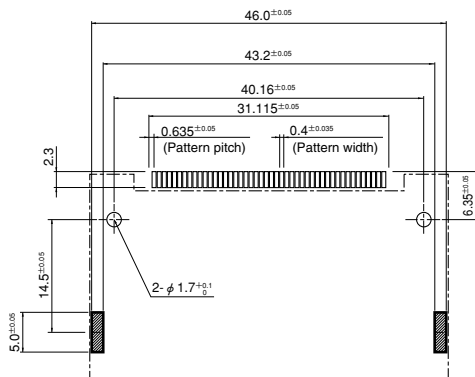
## Specifications

- Pitch: 1.27mm
- Type: Dual-row at mating section
- Current rating: 0.5A AC, DC/line
- Temperature range: -20°C to +60°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.  
After environmental testing/20m Ωmax.  
(variation from initial value)
- Insulation resistance: 1,000M Ωmin. 500V DC (Except for Adapter cards)
- Withstanding voltage: 500V AC/minute (Except for Adapter cards)
- Mating/unmating life: 10,000 cycles
- Conforms to CFA.
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

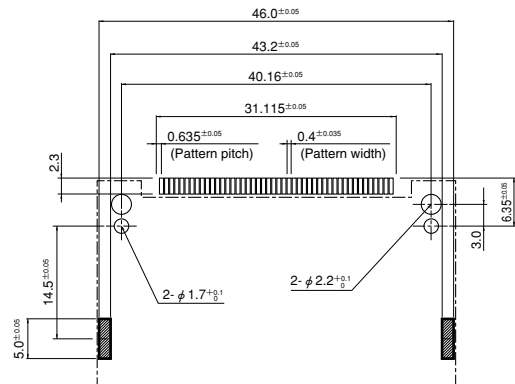
In addition to the connectors applicable to CF type I cards, those for CF type II cards are also available.

### PC board layout (viewed from component side)

For Type I cards/Stand off 0mm  
Normal type/Reverse type

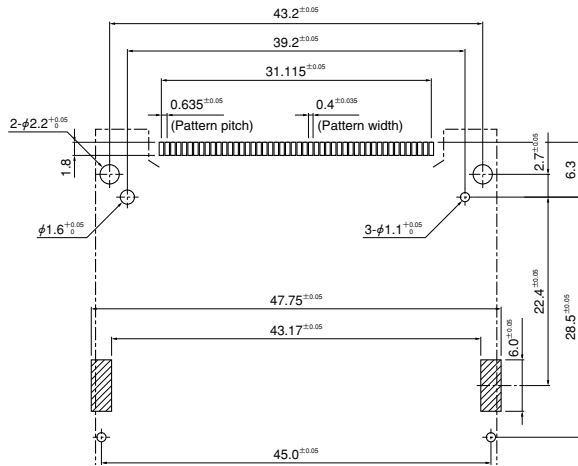


For Type I cards/Stand off 1.64mm  
Normal type/Reverse type

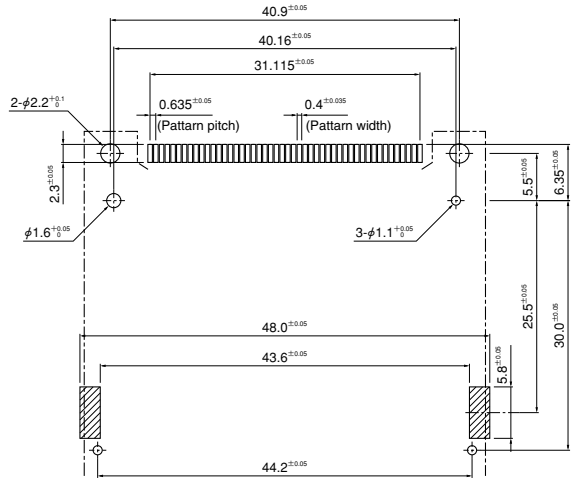


# CF CARD CONNECTOR MA Type

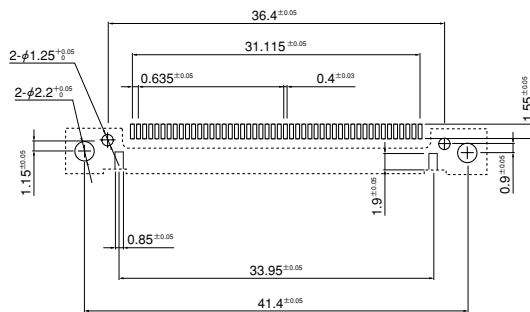
For Type II cards/Stand off 0mm  
Normal type



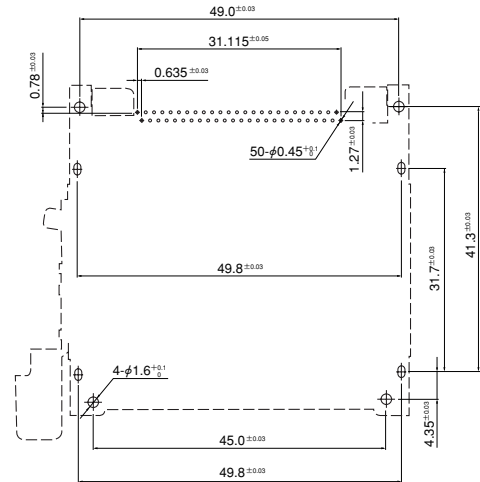
Reverse type



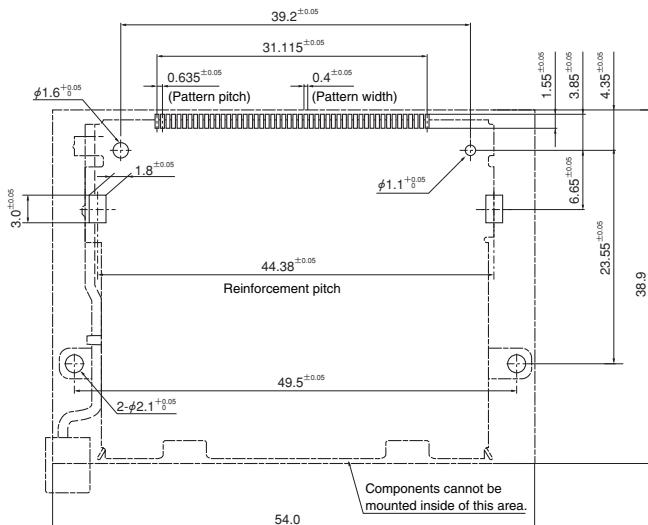
Space-saving type For Type I cards/Stand off 0mm  
Normal type/Reverse type



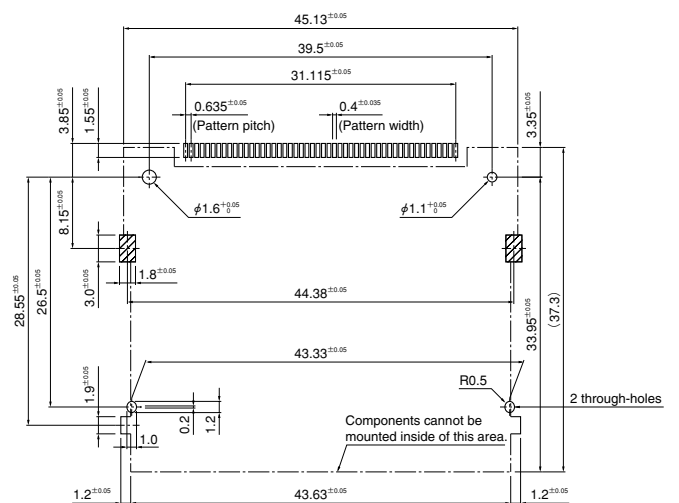
Ejector mounted header with shutter For Type II cards  
Reverse type (Stand off 0mm)



Space-saving type For Type II cards/Stand off 0mm  
Normal type



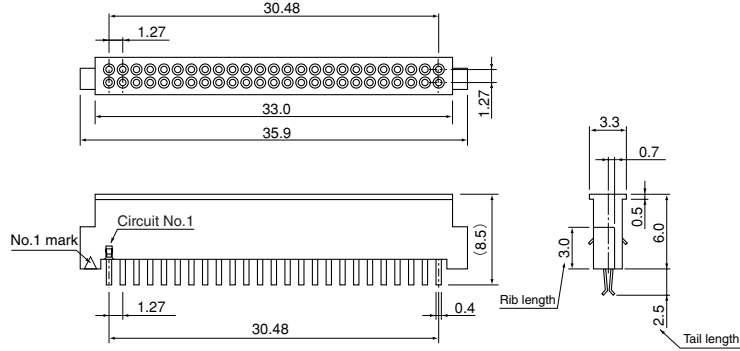
Reverse type



# CF CARD CONNECTOR MA Type

## Socket

### Dual-row straddle type

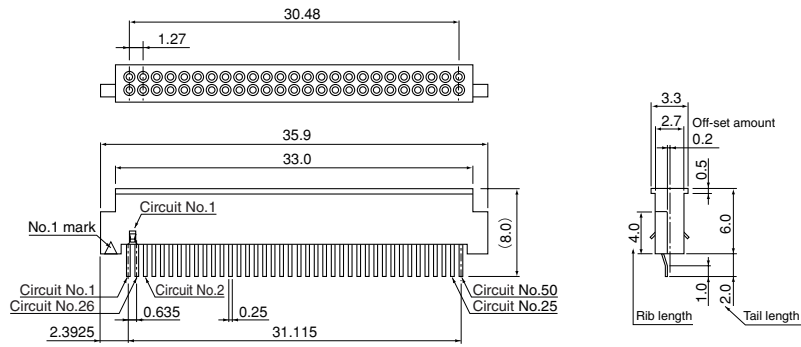


Circuits	Solder tail	Grounding spring	Off-set dimension	Rib length (mm)	Tail length (mm)	Model No.	Qty/box	Material and Finish
50	Dual-row straddle type	With (Circuit No.1, No.26)	Center	3.0mm	2.5mm	<b>ICM-MA50S-TS12-3032</b>	600	Contact: Copper-alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black

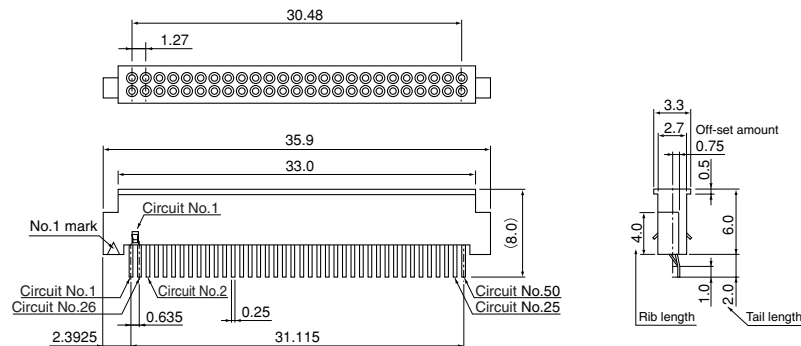
**RoHS compliance** This product displays (LF)(SN) on a label.

### SMT type

#### ICM-MA50S-TS12-3021



#### ICM-MA50S-TS12-3022

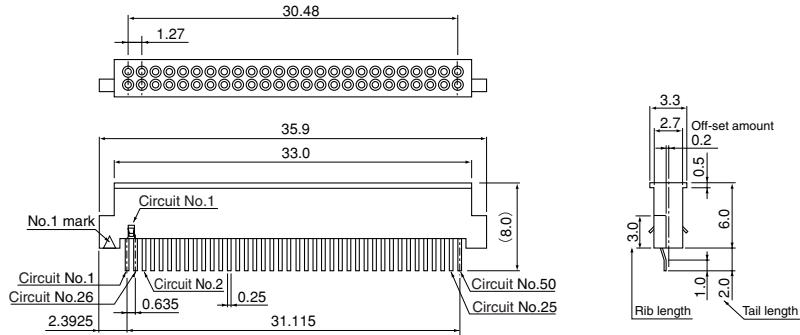


# CF CARD CONNECTOR MA Type

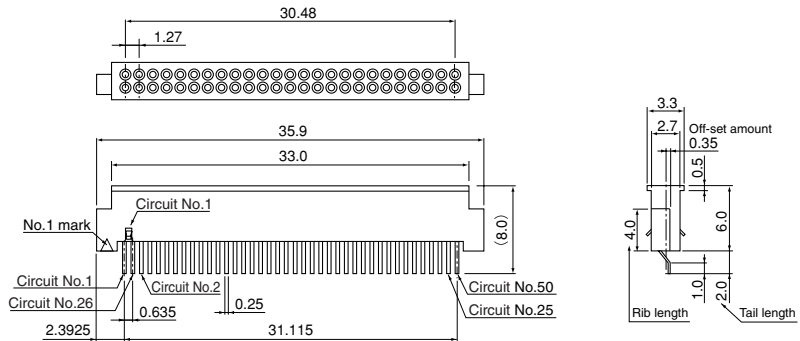
## Socket

### SMT type

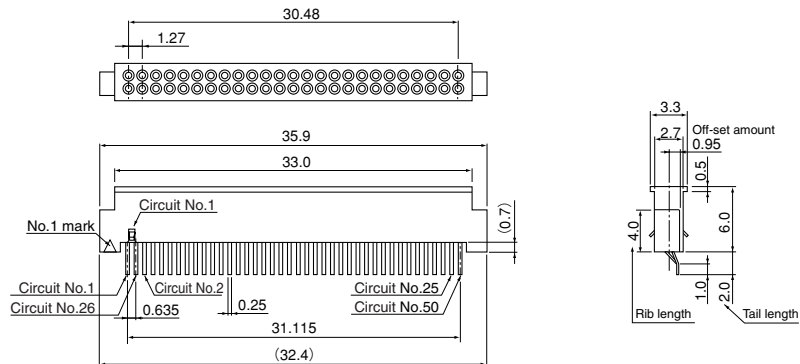
#### ICM-MA50S-TS12-3023



#### ICM-MA50S-TS12-3024



#### ICM-MA50S-TS12-3026



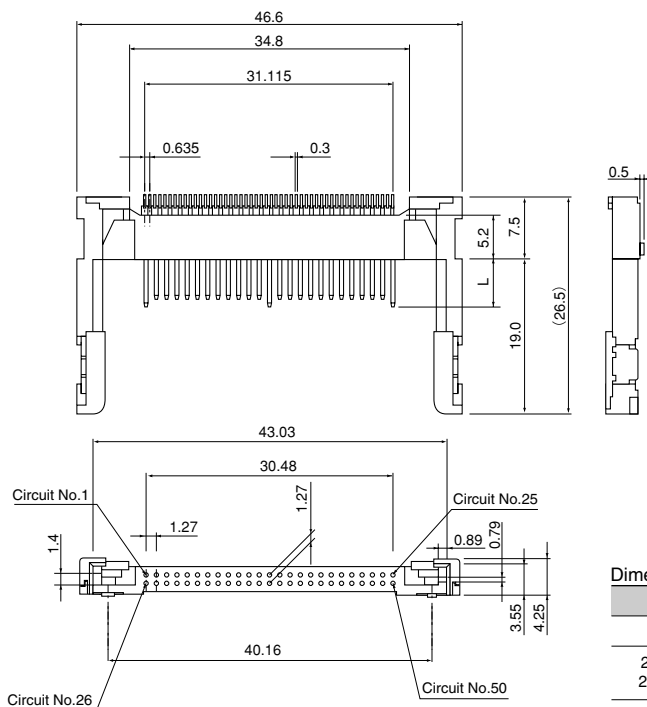
Circuits	Solder tail	Grounding spring	Off-set dimension (mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty/reel	Material and Finish
50	SMT type	With (Circuit No.1, No.26)	0.2mm	4.0mm	2.0mm	ICM-MA50S-TS12-3021T	1,500	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy, nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black
			0.75mm	4.0mm	2.0mm	ICM-MA50S-TS12-3022T	1,500	
			0.2mm	3.0mm	2.0mm	ICM-MA50S-TS12-3023T	1,500	
			0.35mm	4.0mm	2.0mm	ICM-MA50S-TS12-3024T	1,500	
			0.95mm	4.0mm	2.0mm	ICM-MA50S-TS12-3026T	1,500	

**RoHS compliance** This product displays (LF)(SN) on a label.

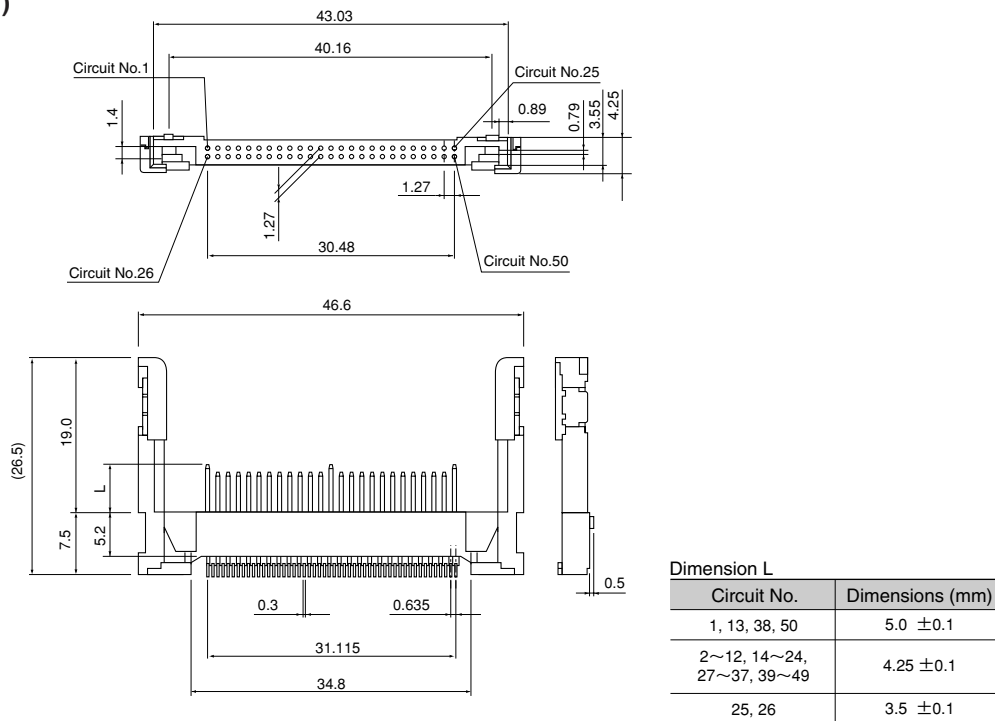
# CF CARD CONNECTOR MA Type

## Header (for Type I cards)

### Normal type (Stand off 0mm)



### Reverse type (Stand off 0mm)



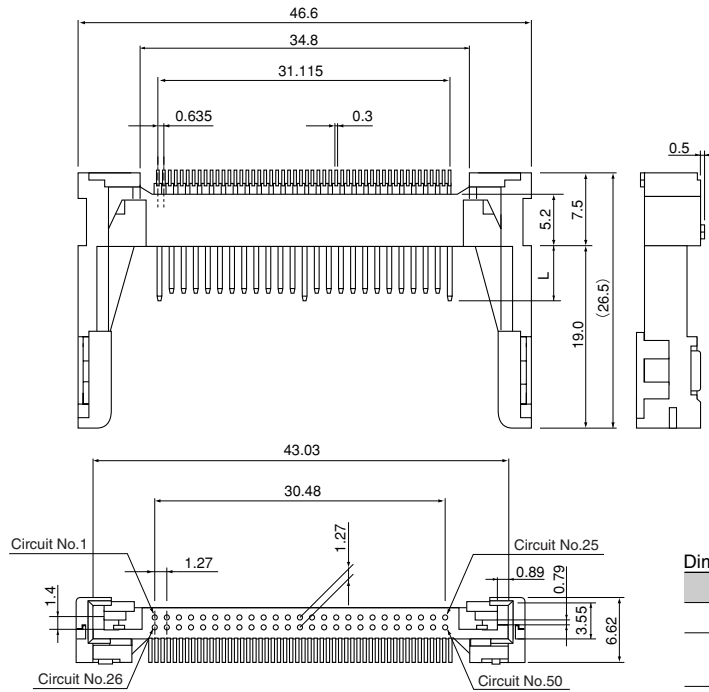
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1151	180	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1171	180	

RoHS compliance This product displays (LF)(SN) on a label.

# CF CARD CONNECTOR MA Type

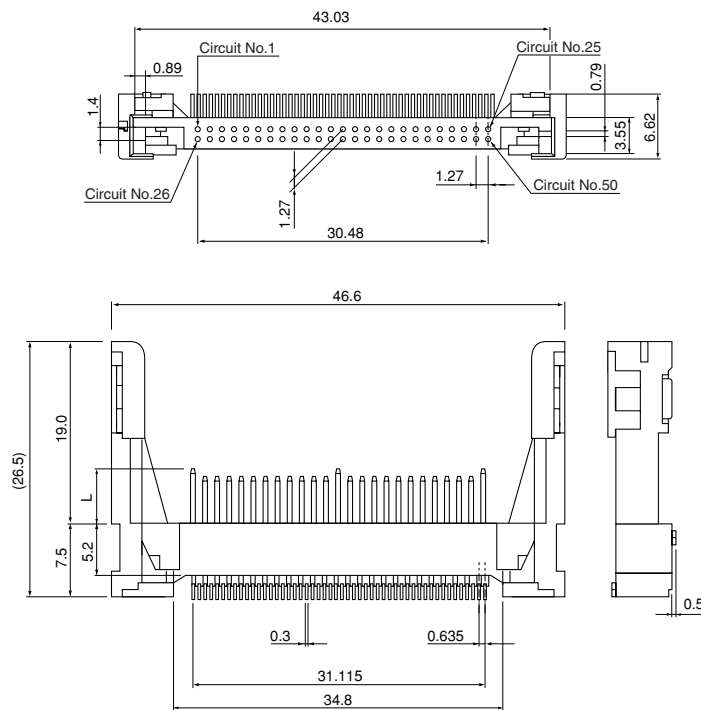
## Header (for Type I cards)

### Normal type (Stand off 1.64mm)



Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

### Reverse type (Stand off 1.64mm)



Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

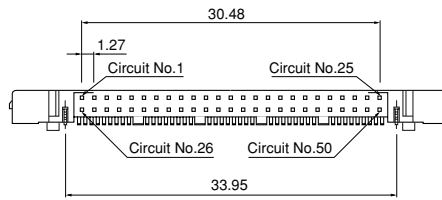
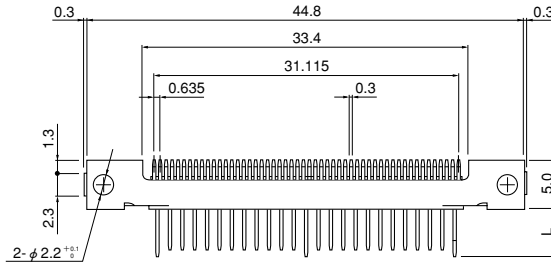
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	ICM-MA50H-SS52-1141	140	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA50H-SS52-1161	140	Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

# CF CARD CONNECTOR MA Type

## Header (for Type I cards) / Space-saving type

Normal , Reverse types  
(Stand off 0mm)



Dimension L

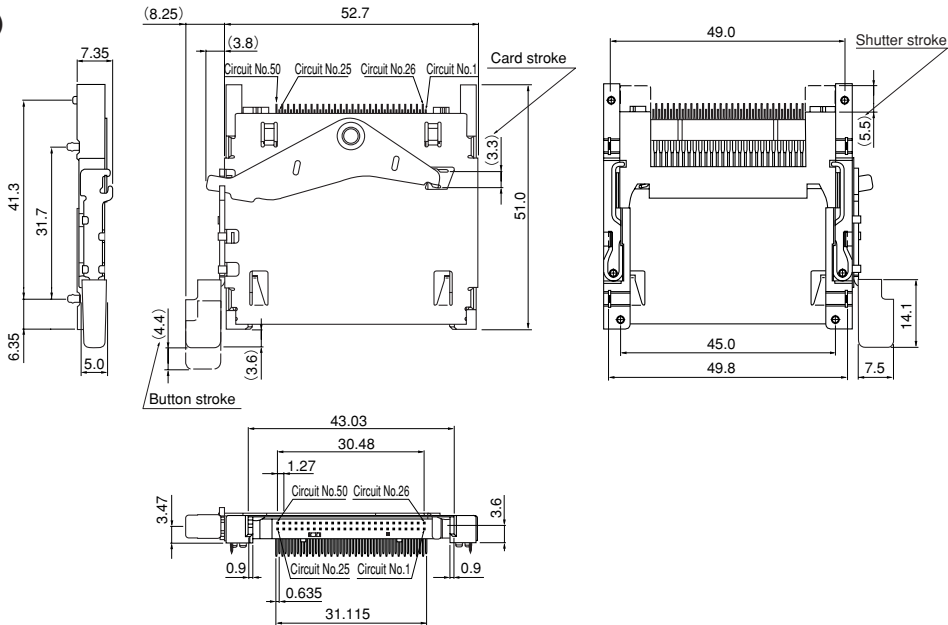
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Qty / box	Material and Finish
50	Normal Reverse	<b>ICM-MA50H-SS52-1184</b>	1,850	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PPS, UL94V-0, black Solder tab: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

## Ejector mounted header with shutter (for Type II cards)

Reverse type  
(Stand off 0mm)



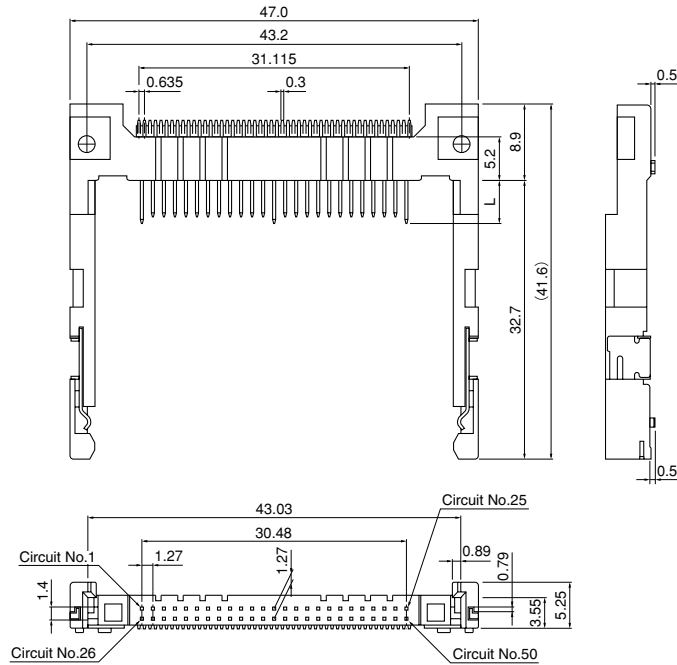
Circuits	Type	Model No.	Qty / box	Material and Finish
50	Reverse	<b>ICM-MA2SL-SD12-RL31</b>	128	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing/ Guide bar/ Push button: PPS, UL94V-0, black Lock/ Rotation arm/ Push bar: Stainless Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated

RoHS compliance This product displays (LF)(SN) on a label.

# CF CARD CONNECTOR MA Type

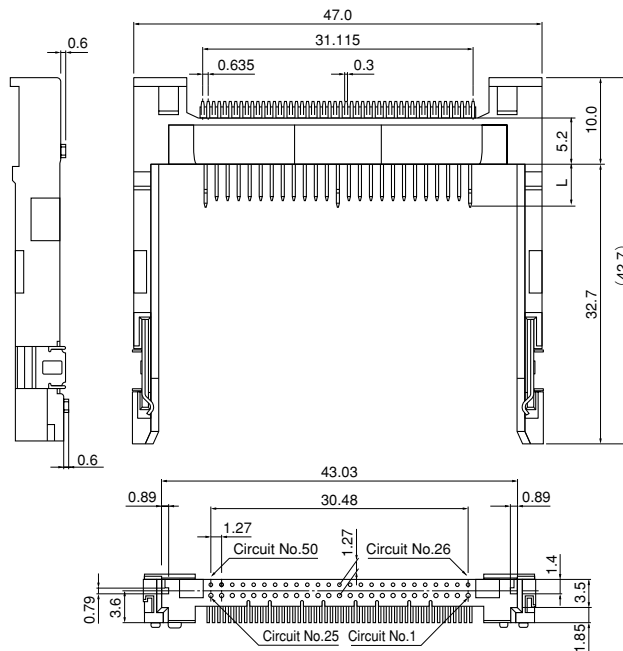
## Header (for Type II cards)

### Normal type (Stand off 0mm)



Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

### Reverse type (Stand off 0mm)



Dimension L	
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	<b>ICM-MA2H-SS52-N11B</b>	84	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
	Reverse	<b>ICM-MA2H-SS52-R21A</b>	84	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

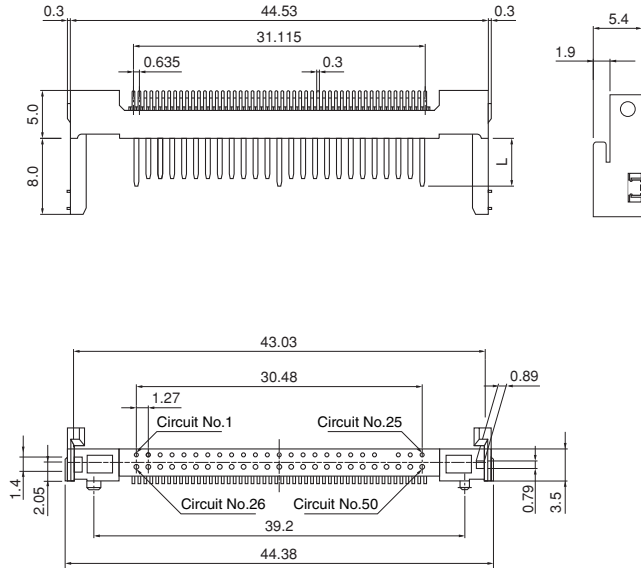
**RoHS compliance** This product displays (LF)(SN) on a label.



# CF CARD CONNECTOR MA Type

## Header (for Type II cards) / Space-saving type

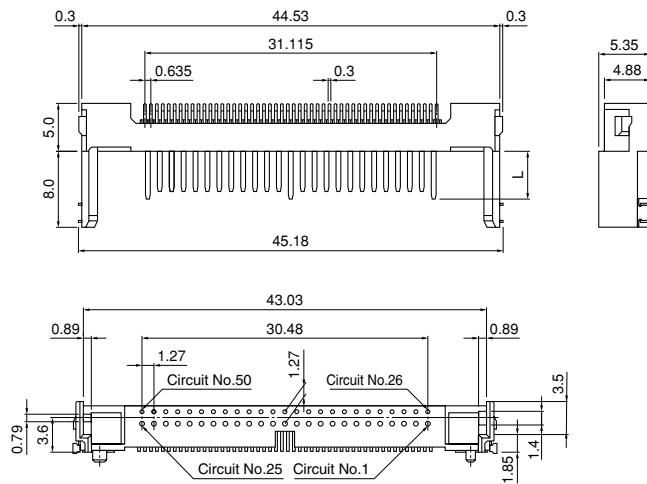
### Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

### Reverse type (Stand off 0mm)



Dimension L

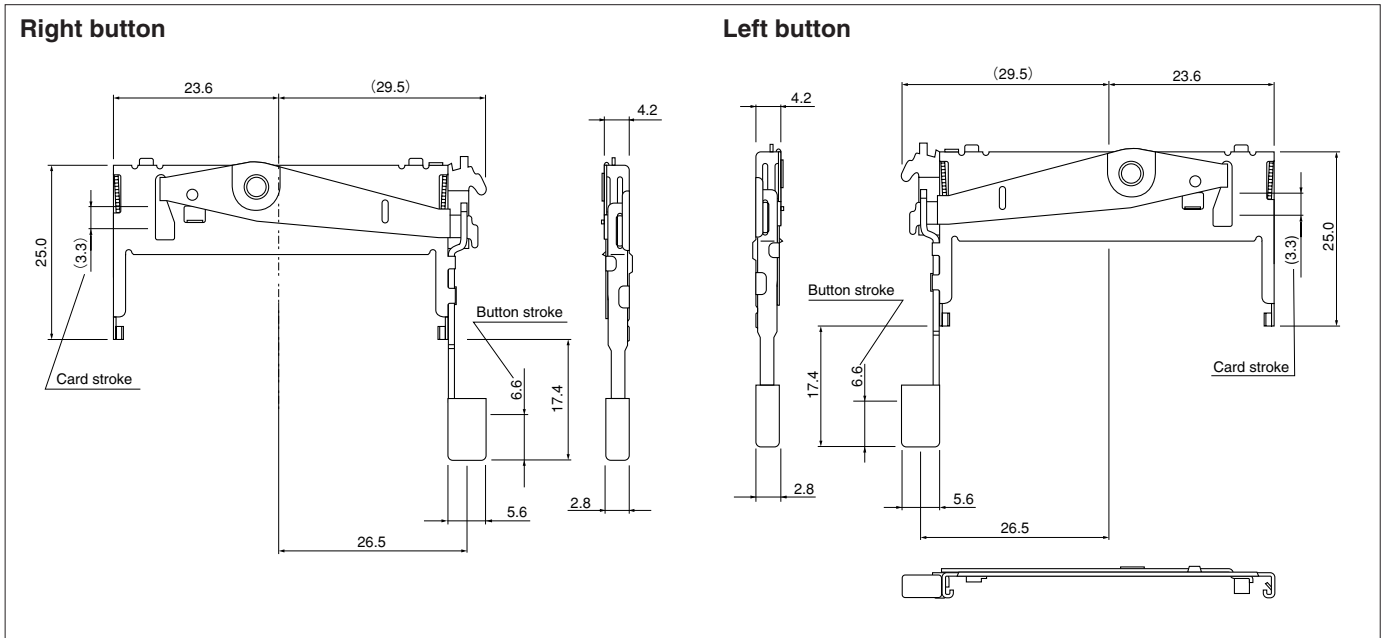
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2~12, 14~24, 27~37, 39~49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / reel	Material and Finish
50	Normal	ICM-MA2H-SS52-N13LT	750	Contact: Phosphor bronze, nickel-undercoated, Mating part: gold-plated Solder tail; tin-plated (reflow treatment)
	Reverse	ICM-MA2H-SS52-R13HT	750	Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS compliance** This product displays (LF)(SN) on a label.  
This products listed above are supplied on embossed-tape.

# CF CARD CONNECTOR MA Type

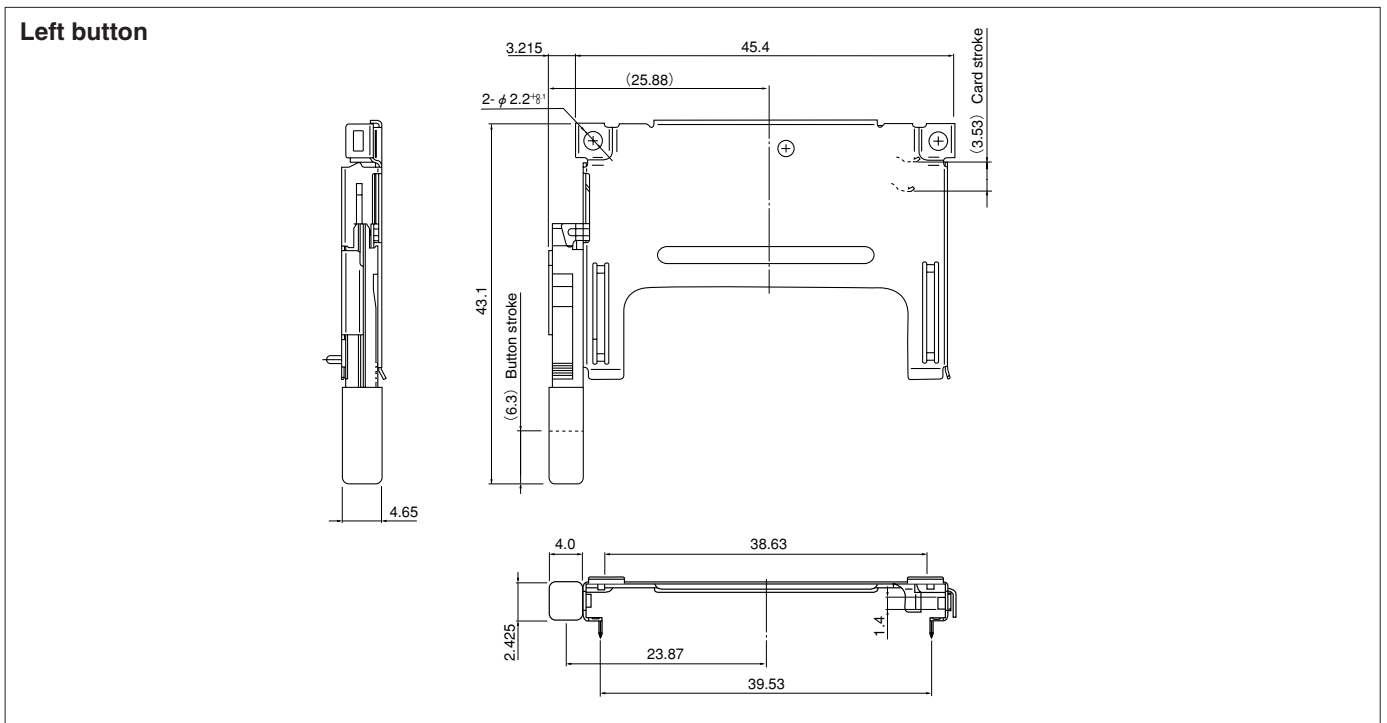
## Ejector (for Type I Header)



Type	Model No.	Qty / box	Material	Applicable header
Right button	<b>ICM-MAE-R01</b>	100	Frame/ Rotation arm : Stainless Push button: PPS, UL94V-0, black	ICM-MA50H-SS52-1141 ICM-MA50H-SS52-1151 ICM-MA50H-SS52-1161 ICM-MA50H-SS52-1171
Left button	<b>ICM-MAE-L01</b>	100		

**RoHS compliance** Applicable headers display (LF)(SN) on a label.

## Ejector mounted header (for Type I Header) / Space-saving type



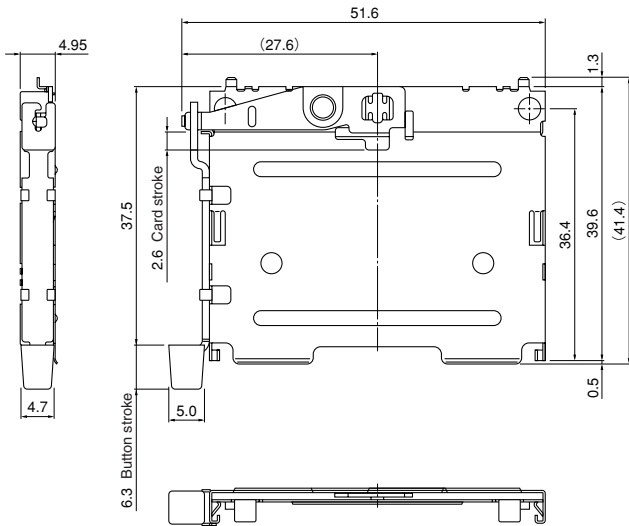
Type	Model No.	Qty / box	Material and Finish	Applicable header
Reverse (Left button)	<b>ICM-MAE-L91ND</b>	252	Frame: Stainless, nickel-undercoated, tin/copper alloy-plated Rotation arm: Stainless Push button: Synthetic resin, UL94V-0, gray	ICM-MA50H-SS52-1184

**RoHS compliance** This product displays (LF) on a label.  
An applicable header displays (LF)(SN) on a label.

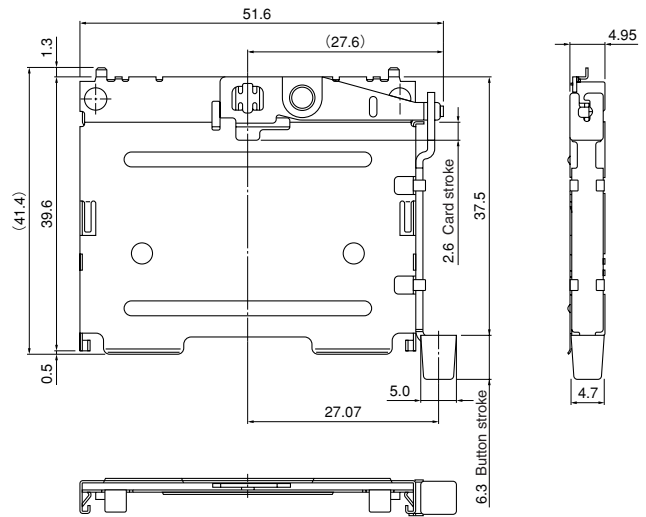
# CF CARD CONNECTOR MA Type

## Ejector (for Type II header)

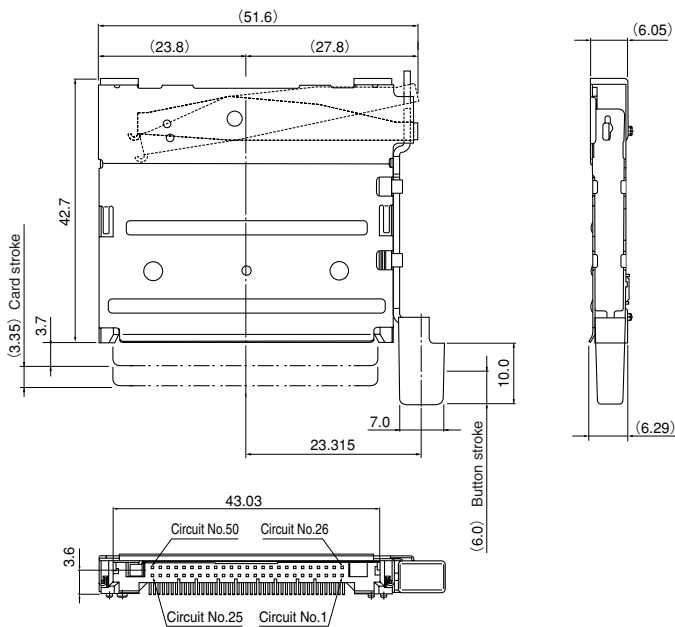
### For Normal type header (Left button)



### For Normal type header (Right button)



### For Reverse type header (Right button)



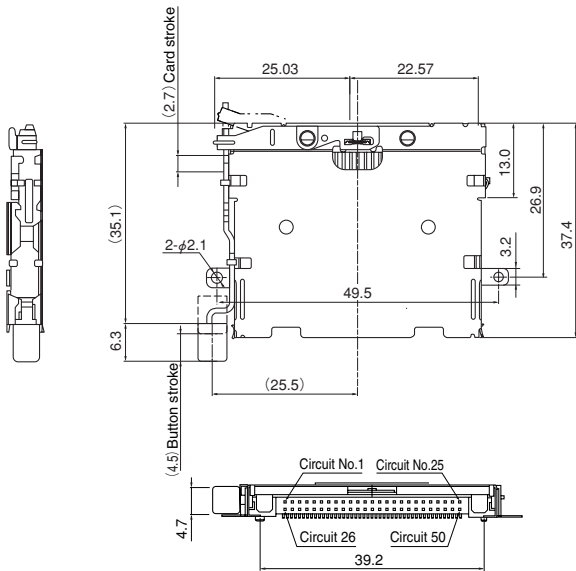
Type	Model No.	Qty / box	Material	Applicable header
For Normal type header (Left button)	<b>ICM-MAE-L33</b>	324	Frame/ Rotation arm/ Push bar/ Push plate/ Button shaft: Stainless Push button: PBT, UL94-0, black(R32), gray(L33)	ICM-MA2H-SS52-N11B
For Normal type header (Right button)	<b>ICM-MAE-R32</b>	324		
For Reverse type header (Right button)	<b>ICM-MAE-R21A</b>	48	Frame/ Rotation arm/ Push bar: Stainless Push button: PPS, UL94-0, black	ICM-MA2H-SS52-R21A

**RoHS compliance** ICM-MAE-L33/ICM-MAE-R32 display (N) on a label.  
Applicable headers display (LF)(SN) on a label.

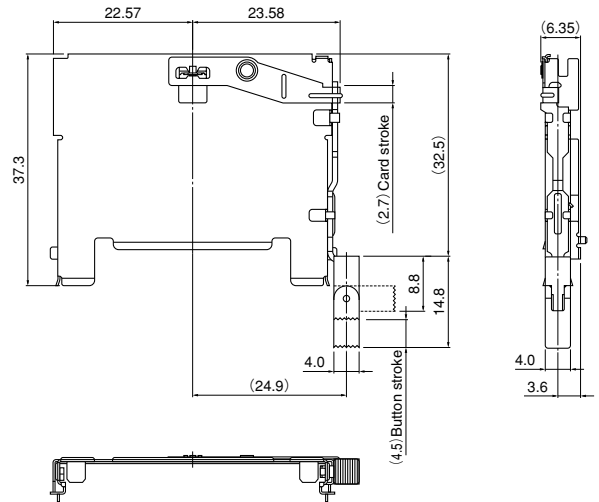
# CF CARD CONNECTOR MA Type

## Ejector (for Type II header) / Space-saving type

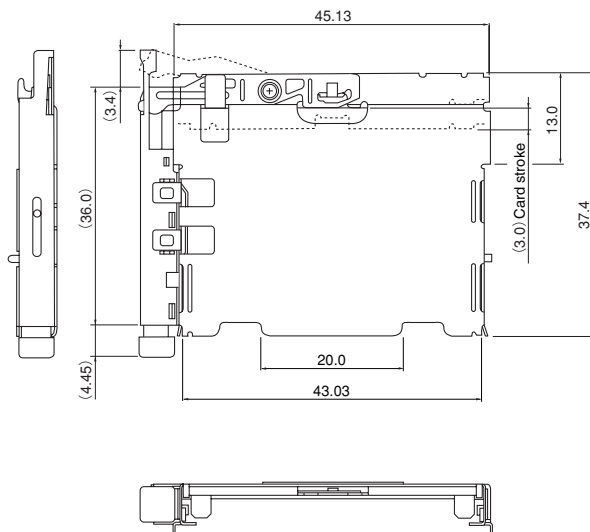
For Normal type header  
(Stand off 0mm) Left button



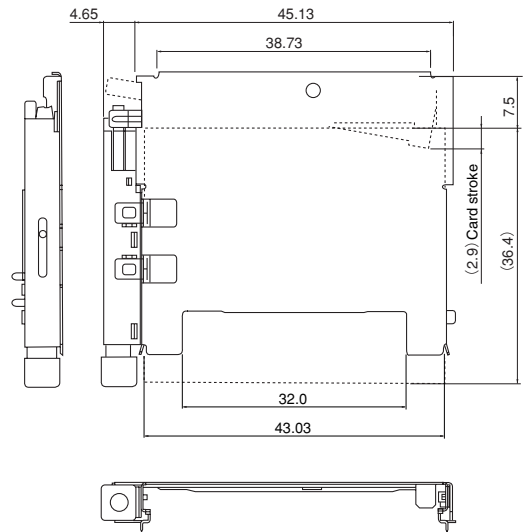
For Reverse type header  
(Stand off 0mm) Right button



For Normal type header  
(Stand off 0mm) Left button/Push-push type



For Reverse type header  
(Stand off 0mm) Left button/Push-push type



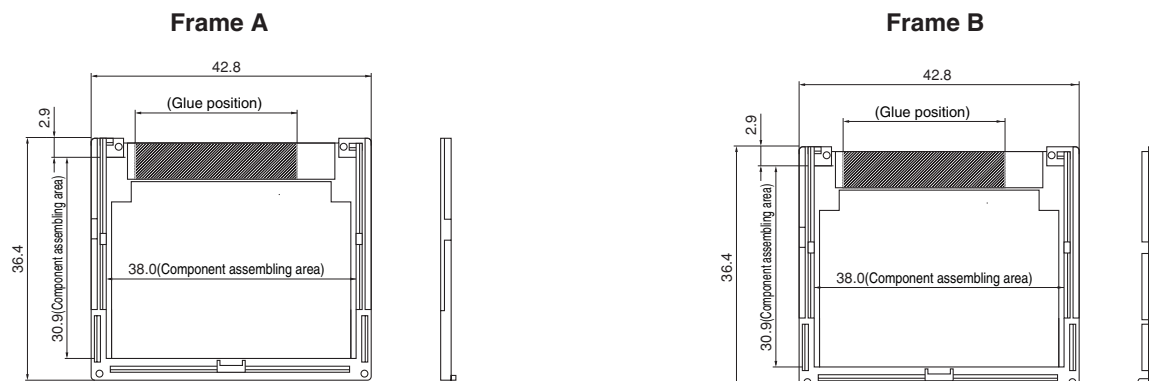
Type	Model No.	Q'ty / box	Material and Finish	Applicable header
For Normal type header (Stand off 0mm) Left button	<b>ICM-MAE-L73FA</b>	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Button: PBT, UL94V-0, gray	ICM-MA2H-SS52-N13L ICM-MA2H-SS52-N13LT
For Normal type header (Stand off 0mm) Left button, Push-push	<b>ICM-MA2EP-L520A</b>	36	Rotation arm/Push plate: Stainless Button: PBT, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	
For Reverse type header (Stand off 0mm) Right button	<b>ICM-MAE-R66C3</b>	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Clinched button: Synthetic resin, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	ICM-MA2H-SS52-R13HT
For Reverse type header (Stand off 0mm) Left button, Push-push	<b>ICM-MA2EP-L810E</b>	36	Arm: Stainless Push button: Synthetic resin, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	

**RoHS compliance** ICM-MAE-R66C3 display (LF) on a label.  
ICM-MA2EP-L520A/ICM-MA2EP-L810E display (LF) on a label.  
Applicable headers display (LF)(SN) on a label.

# CF CARD CONNECTOR MA Type

## Card frame (for Type I cards)

### ICM-MA50F-A/B-FB-C

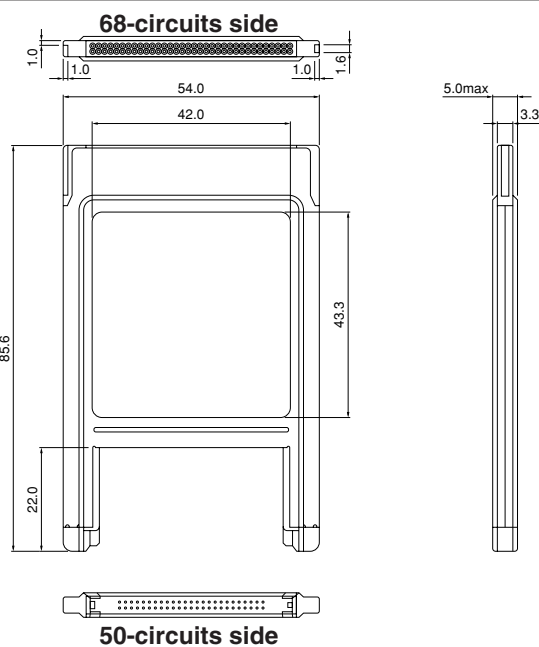


Circuits	Model No. as a set (Frame A + Frame B)	Applicable socket	Q'ty / box	Material
50	ICM-MA50F-A/B-FB-CA	ICM-MA50S-TS12-3032	150	Frame: Glass-filled PBT, UL94V-0 Cover: Stainless
		ICM-MA50S-TS12-3023T		

RoHS compliance

## Adapter card

### For CF Type I cards (PC card 5V key)



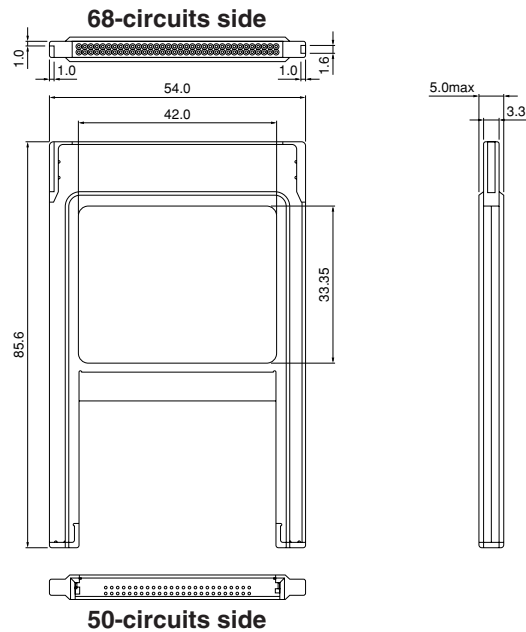
Model No.	Q'ty / box	Material and Finish		
ICM-MA50A-C441N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance This product displays (LF)(SN) on a label.

# CF CARD CONNECTOR MA Type

## Adapter card

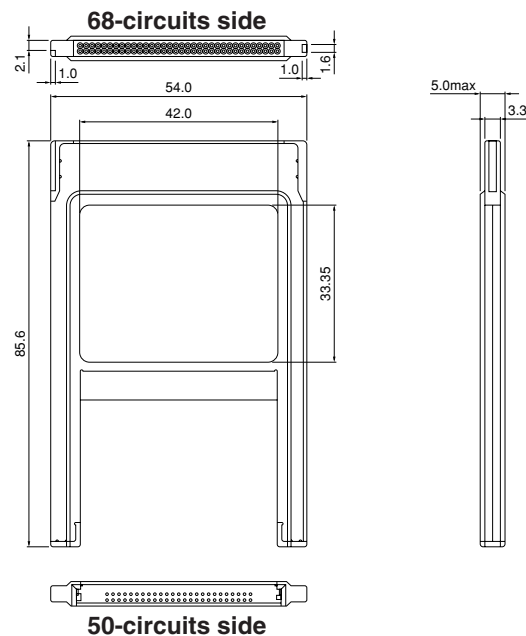
For CF Type II cards  
(PC card 5V key  
with grounding clip spring)



Model No.	Qty / box	Material and Finish	
ICM-MA2A-C454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated
		Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless	

RoHS compliance This product displays (LF)(SN) on a label.

For CF Type II cards  
(PC card 3.3V key  
with grounding clip spring)



Model No.	Qty / box	Material and Finish	
ICM-MA2A-CL454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated
		Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless	

RoHS compliance This product displays (LF)(SN) on a label.