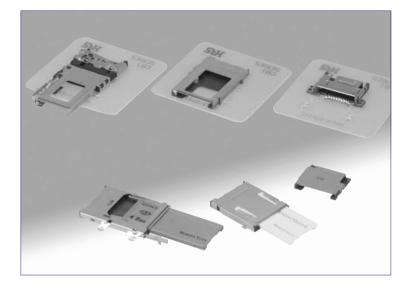
Memory Stick[®] Connectors

CB1 Series



Receptacle connectors for use with the new generation of digital media devices requiring "Memory Stick[®]" type of consumer removable memory card.

Several variations are available: Miniature, Low Profile and with or without ejection mechanism.

Features

1. Indication of Incorrect Card Insertion

The connector will not allow the card to be complete inserted from the wrong end or reversed.

The card will stop about 7mm before complete insertion position, visually indicating incorrect insertion.

2. Protection of the Contacts

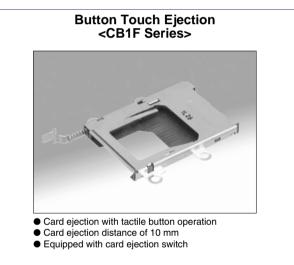
Incorrect insertion of the card will not damage the contacts. The card can be easily withdrawn and re-inserted correctly.

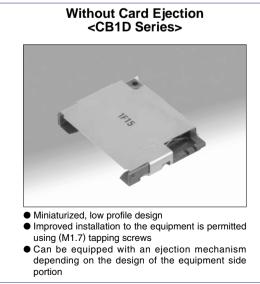
3. Excellent Card Handling

The type that is equipped with an ejection mechanism provides a long ejection of the card which offers excellent card handling qualities.

*Memory Stick is a registered trademark of the Sony Corporation.







Note: Please position the card ejection button at the side of the equipment.

Product Specifications

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Dating	Current rating 0.5A	rating 0.5A Operating temperature range -20°C to -	-20℃ to +85℃(Note)	Operating humidity range
Rating Vo	Voltage rating 125V AC	Storage temperature range	-40℃ to +85℃	Relative humidity 96% max. (No condensation)

Item	Specification	Conditions	
1. Insulation resistance	1000 MΩ min.	500 V DC	
2. Withstanding voltage	No flashover or insulation breakdown	500 V AC / one minute	
3. Contact resistance	100 mΩ max.	100mA DC	
4. Vibration	No electrical discontinuity of 1 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours / 3 axis	
5. Humidity	Contact resistance: 40 m Ω max. from initial value Insulation resistance: 100 M Ω min.	96 hours at temperature of $40^\circ\!C\pm2^\circ\!C$ and humidity of 90% to 95%	
6. Temperature cycle	Contact resistance: 40 m Ω max. from initial value Insulation resistance: 100 M Ω min.	Temperature: $-55^{\circ}C \rightarrow +5^{\circ}C$ to $+35^{\circ}C \rightarrow +85^{\circ}C \rightarrow +5^{\circ}C$ to $+35^{\circ}C$ Duration: $30 \rightarrow 5 \rightarrow 30 \rightarrow 5$ (Minutes) 5 cycles	
7. Durability (mating/unmating)	Contact resistance: 40mΩ max. from initial value	12000 cycles at 400 to 600 cycles per hour	
8. Resistance to soldering heat	No deformation of any component. No affect on contacts	Reflow: At the recommended temperature profile Manual soldering: 300°C for 3 seconds	

Note :Includes temperature rise caused by current flow.

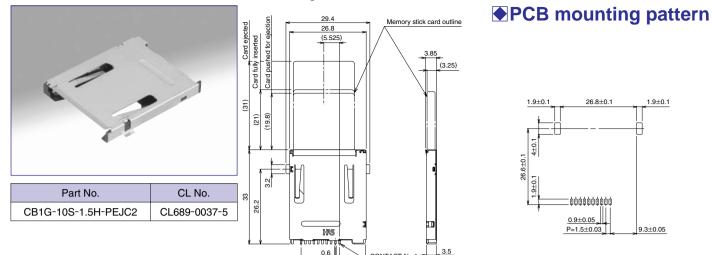
Materials

Part	Material	Finish	Remarks
Insulator Heat resistant glass reinforced therm oplastic compound		Color: Black	UL94V-0
Contacts Phosphor bronze		Contact area: Gold plated Termination area: Tin-lead plated or tinned copper plated	
Metal hold down	Phosphor bronze or stainless steel	Contact area: Nickel plating Termination area: Tin-lead plated or tinned copper plated	CB1E,CB1F,CB1G Series is without the termination area.
Cover Stainless steel or cupper alloy			The CB1E Series has termination area with tin-lead plated.
Eject mechanism components Stainless steel Heat resistant glass reinforced therm oplastic compound			UL94V-0

Ordering information

CB 1 E - 10 S - 1.5	H - PEJC - *	
0 0 0 0 0 0		
Series name : CB	6 Contact pitch : 1.5 mm	
2 Series No. : 1	Surface mount	
S Ejector type : C	8 Eject mechanism codes:	
E (With sight most most an	PEJC : Card Push insert/Push eject	
F With eject mechanism	EJL : Left button eject	
G	EJR : Right button eject	
$\left. \begin{array}{c} D \\ A \end{array} \right\}$ Without eject mechanism	Suffix	
4 Number of contacts : 10		
S : Receptacle]	

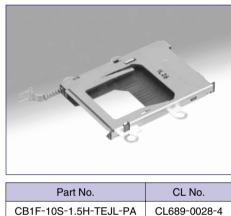
Low Profile, Push Insert-Push Eject

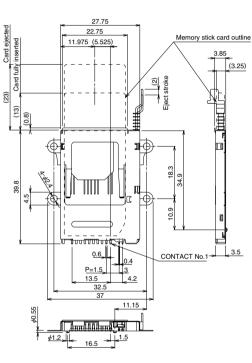


0.6 P=1.5

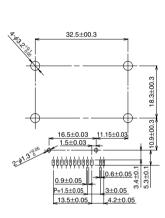
CONTACT No.1



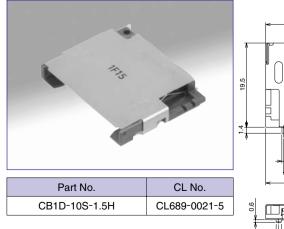


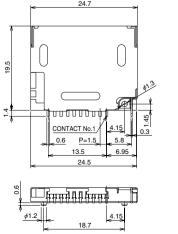






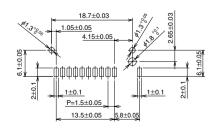
Without Card Ejection

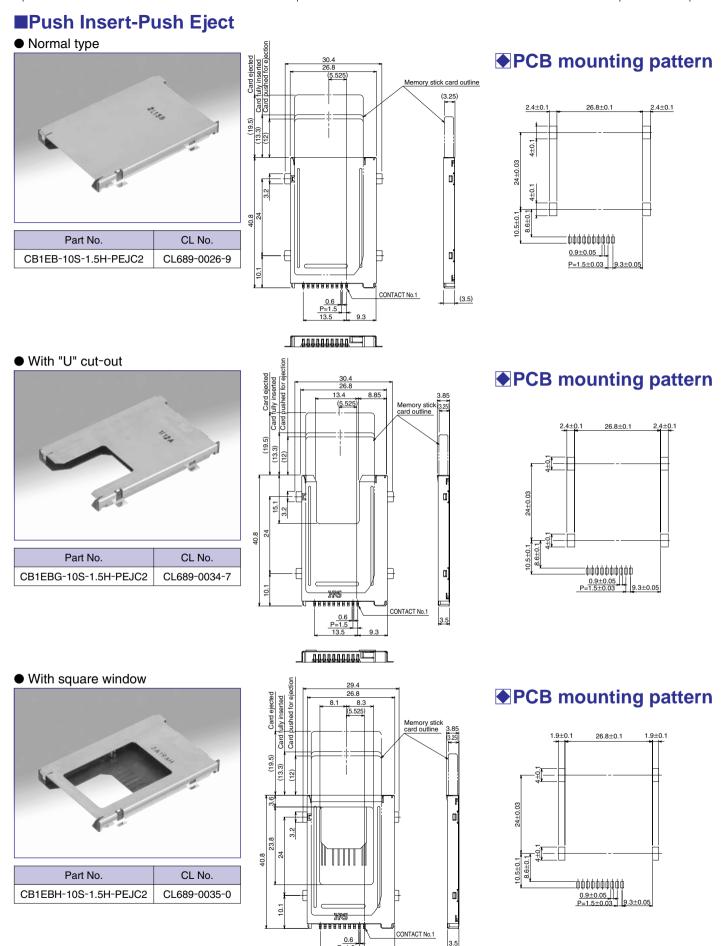




5.5

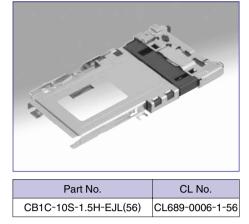
♦ PCB mounting pattern



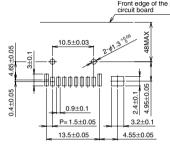


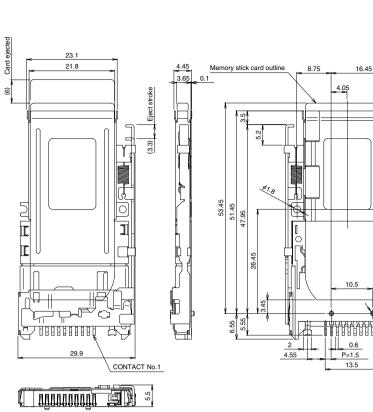
P=1.5 13.5 9.3

■Left Ejection







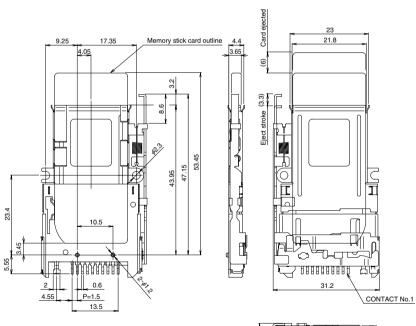


■Right Ejection



●PCB mounting pattern

Front edge of the printed circuit board ±0.03 ¢¢¢¢¢¢ 4.95±0.05 2.4±0.1 0.4±0.05 0.9±0.1 P=1.5±0.05 3.2±0. 13.5±0.05 4.55±0.05



S C ADADADAD ED

16.45

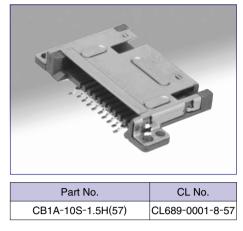
1

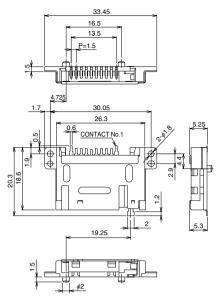
0

4

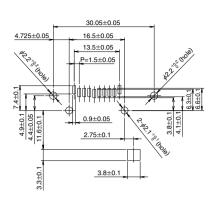
C22 **HS**

■With flange, for screw attachment

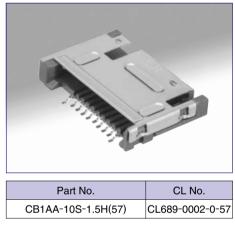


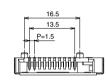


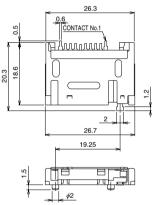
♦ PCB mounting pattern



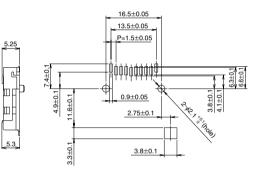
Without flange



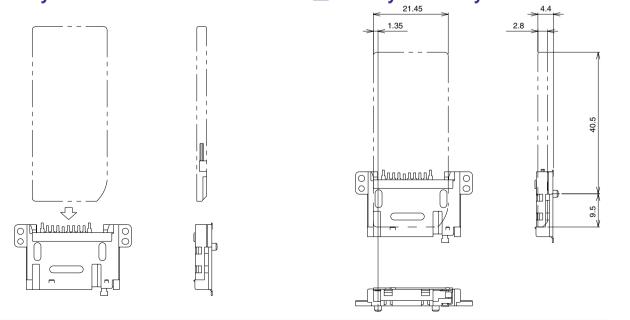




♦ PCB mounting pattern



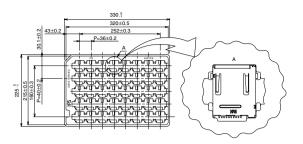
Memory Stick card insertion direction Memory Stick fully inserted dimensions



Packaging specification (Tray packaging)

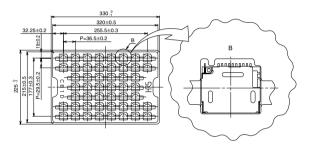
• Part Number: CB1G-10S-1.5H-PEJC2(1 tray: 40 pieces)

• Part Number: CB1F-10S-1.5H-TEJL-PA(1 tray: 20 pieces)

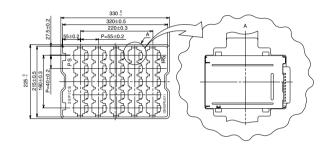


• Part Number: CB1D-10S-1.5H(1 tray: 50 pieces)

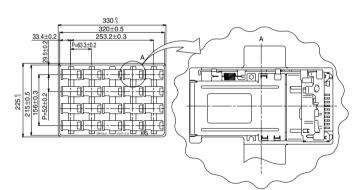
- 300.1 300.0 105:0.3 105:0.5
- Part Number: CB1EB*-10S-1.5H-PEJC2(1 tray: 25 pieces)



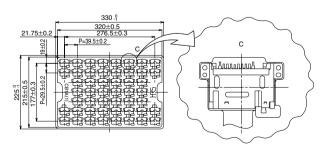
• Part Number: CB1C-10S-1.5H-EJL(56)(1 tray: 20 pieces)

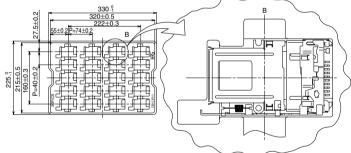


• Part Number: CB1C-10S-1.5H-EJR(59)(1 tray: 20 pieces)



• Part Number: CB1A*-10S-1.5H(57)(1 tray: 50 pieces)

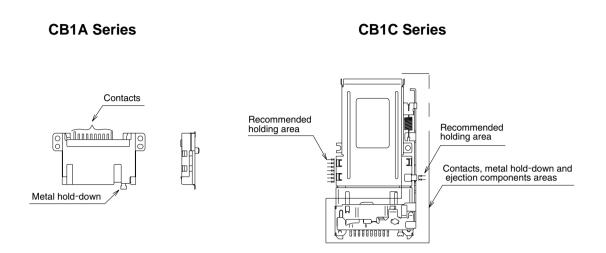




♦Usage Precautions

1.Care should be taken to correctly insert/withdraw the Memory Stick[®] card. Following correct insertion/withdrawal procedures will prevent device or connector damage.

When handling the CB1C series connectors, hold it in the areas indicated by the arrows, as illustrated below.

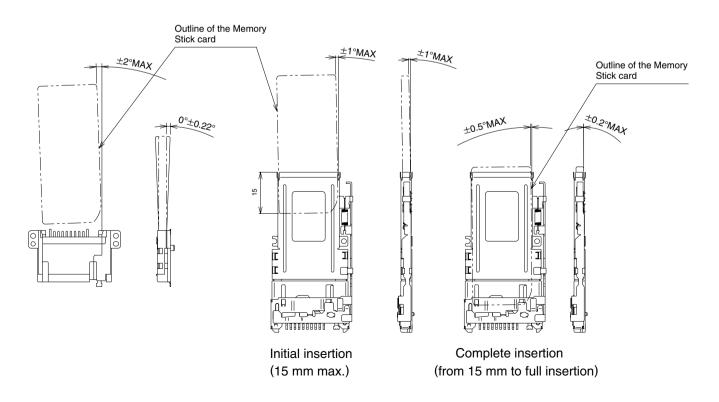


2.Follow the recommended insertion angles, as illustrated below.

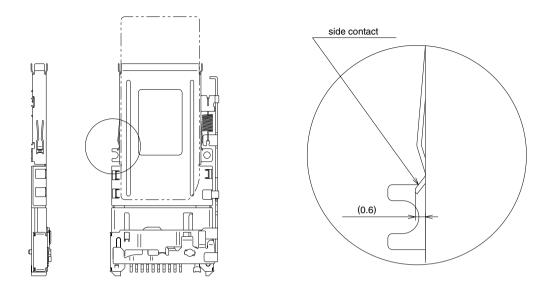
<Memory Stick Allowable Insertion Angles>

CB1A Series

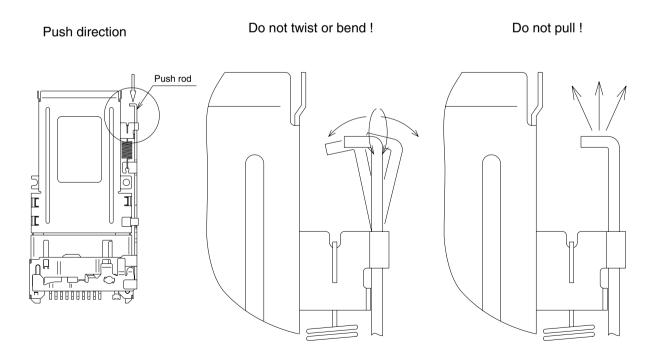
CB1C Series



3. When inserting or withdrawing cards from the CB1C Series, the side contacts on both sides will protrude outward by 0.6 mm. Care should be taken that they will not be restricted or touch other components.



4. Application of an excessive external force to the push rod may prevent the ejection or insertion of the card. Do not apply any load in a direction other than the push direction.



Recommended Temperature Profile

