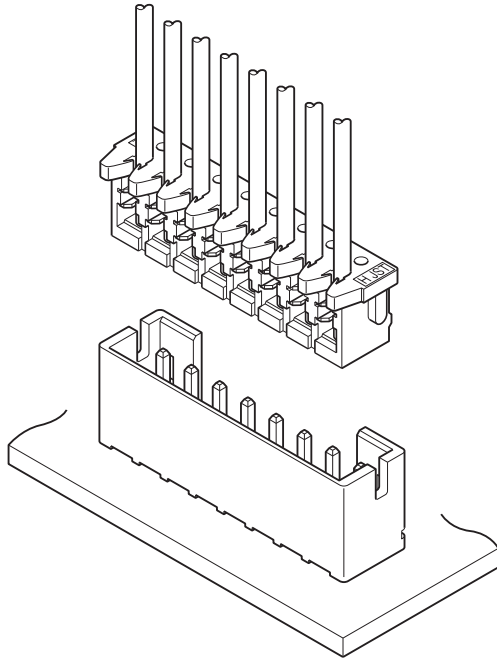


# CK CONNECTOR

2.0 mm pitch/Wire-to-Board connectors/IDC style and Mating style



This CK connector is a 2.0 mm pitch IDC connector solution that can be of use with small diameter wires, particularly with wires that have an insulation outer diameter in the 0.75 mm to 1.05 mm range.

The smaller wire size capability allows for cross-use with our CZ connector at 1.5 mm pitch which then enables both the CK and CZ connectors to be used jointly in a double-ended wire harness configuration.

- Wire compatibility with insulation outer diameter range of 0.75 mm to 1.05 mm
- Strain relief for stable wire retention
- Twin U-slots (IDC contacts) that provide exceptional reliability in electrical connection with the mating section built upon a double-leaf U-slot design.
- Compatible with a wide variety of PH connector headers
- Compact, space-saving design
  - \* 6.9 mm connector mounted height and 4.8 mm connector width when combined with the PH through-hole, top-entry header.
- Can be used with TR connector unit for wire-to-wire configurations

## ■ Specifications

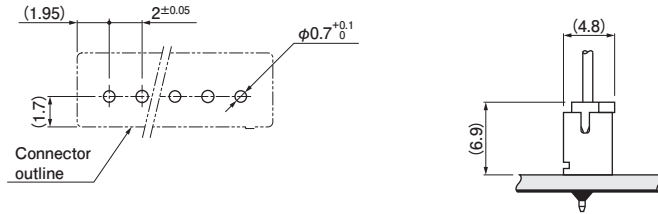
- Current rating: 2 A AC/DC (AWG #26)
  - Voltage rating: 100 V AC/DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance:
    - Initial value/ 10 mΩ max.
    - After environmental tests/ 20 mΩ max.
  - Insulation resistance: 1,000 MΩ min.
  - Withstanding voltage:
    - There shall be no breakdown or flashover while applying 800 VAC for one minute.
  - Applicable wire:
    - UL style/ UL1061, UL10272
    - Note: Please contact JST for details regarding the use of other UL style wires.
    - Wire specification/ AWG #28, AWG #26
    - 7 strand, tin-plated, annealed copper conductor
    - Insulation O.D./  $\phi$  0.75 mm to  $\phi$  1.05 mm
  - Applicable PC board thickness: 0.8 mm to 1.6 mm
- \* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

## ■ Standards

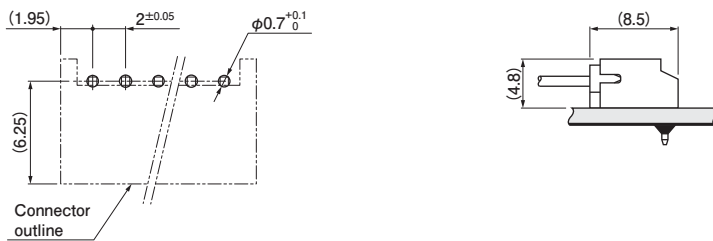
- For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).
- \* Specifications registered to overseas standards may differ from the general specifications listed above.

## PC board layout and Assembly layout

### Top entry type

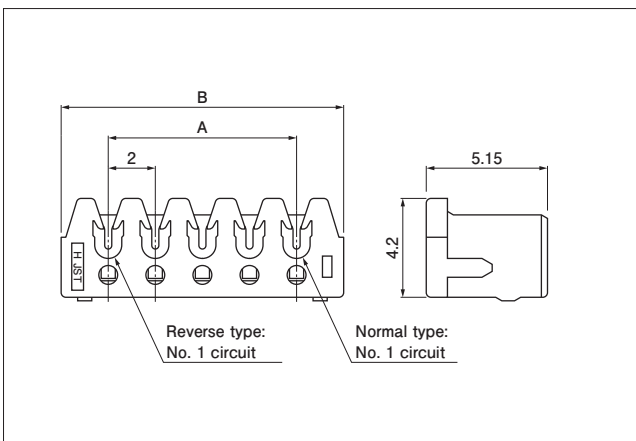


### Side entry type



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.  
 2. Tolerance for the PCB hole pitch shall be  $\pm 0.05$  and shall not accumulate.  
 3. Hole dimensions differ depending on the type of PCB and PCB drilling method.  
 The above dimensions are for reference only. Please contact JST for further details.

## Socket



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	Normal type	Reverse type	A	B	
2	02CK-6H-P	02CK-6H-PC	2.0	6.0	2,000
3	03CK-6H-P	03CK-6H-PC	4.0	8.0	2,000
4	04CK-6H-P	04CK-6H-PC	6.0	10.0	2,000
5	05CK-6H-P	05CK-6H-PC	8.0	12.0	2,000
6	06CK-6H-P	06CK-6H-PC	10.0	14.0	2,000
7	07CK-6H-P	07CK-6H-PC	12.0	16.0	1,000
8	08CK-6H-P	08CK-6H-PC	14.0	18.0	1,000
9	09CK-6H-P	09CK-6H-PC	16.0	20.0	1,000
10	10CK-6H-P	10CK-6H-PC	18.0	22.0	1,000
11	11CK-6H-P	11CK-6H-PC	20.0	24.0	1,000
12	12CK-6H-P	12CK-6H-PC	22.0	26.0	1,000
13	13CK-6H-P	13CK-6H-PC	24.0	28.0	500
14	14CK-6H-P	14CK-6H-PC	26.0	30.0	500
15	15CK-6H-P	15CK-6H-PC	28.0	32.0	500

Material and Surface finish, etc.

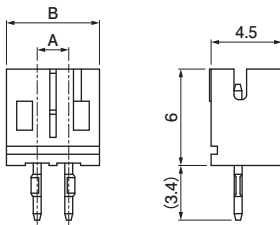
Contact: Copper alloy, tin-plated  
 Housing: PA (GF)

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

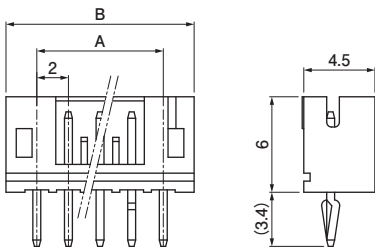
## Header

### Top entry type

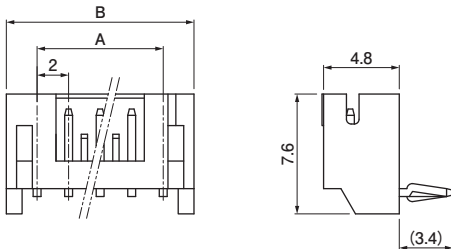
<2 circuits>



<3 circuits or more>



### Side entry type



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-PH-K-H	S2B-PH-K-H	2.0	5.9	1,000	1,000
3	B3B-PH-K-H	S3B-PH-K-H	4.0	7.9	1,000	1,000
4	B4B-PH-K-H	S4B-PH-K-H	6.0	9.9	1,000	500
5	B5B-PH-K-H	S5B-PH-K-H	8.0	11.9	1,000	500
6	B6B-PH-K-H	S6B-PH-K-H	10.0	13.9	1,000	500
7	B7B-PH-K-H	S7B-PH-K-H	12.0	15.9	500	500
8	B8B-PH-K-H	S8B-PH-K-H	14.0	17.9	500	250
9	B9B-PH-K-H	S9B-PH-K-H	16.0	19.9	500	250
10	B10B-PH-K-H	S10B-PH-K-H	18.0	21.9	500	250
11	B11B-PH-K-H	S11B-PH-K-H	20.0	23.9	500	250
12	B12B-PH-K-H	S12B-PH-K-H	22.0	25.9	400	250
13	B13B-PH-K-H	S13B-PH-K-H	24.0	27.9	250	250
14	B14B-PH-K-H	S14B-PH-K-H	26.0	29.9	250	250
15	B15B-PH-K-H	S15B-PH-K-H	28.0	31.9	250	200

Material and Surface finish, etc.

Post: Copper alloy, tin-plated  
Header housing: PA, gray

- Note: 1. This product displays (LF) (SN) on a label.  
2. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

## Model number allocation

### Socket

02 CK - 6 H - P C

No. of circuits

Series name

Applicable wire range: AWG #26, AWG #28

Color: Gray

Sub model number

Type: No indication...Normal, C...Reverse

### Header

B 2 B - PH - K - H

Header type: B...Top entry type  
S...Side entry type

No. of circuits

Assembly product

Series name

Clinched (Kinked) / Not clinched: Clinched

Color: H...Gray, S...Natural (White)