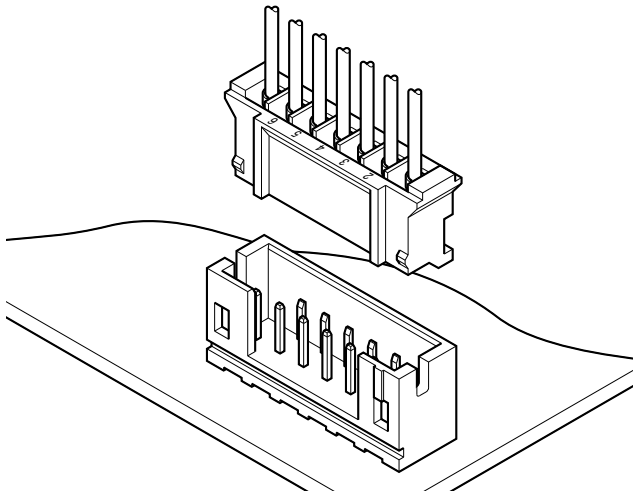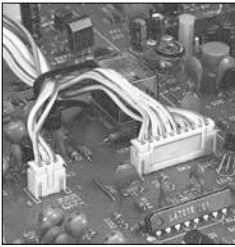# PH CONNECTOR

2.0 mm pitch/Disconnectable Crimp style connectors

Emboss Tape

This is a thin, low-profile 2.0 mm pitch connector 8.0 mm in height after mounting and 4.5 mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

● Reliable contact
● Fully shrouded header
● Printed circuit board retention mechanism
● Surface mount model (SMT)

Specifications

• Current rating: 2 A AC/DC (AWG #24)
• Voltage rating: 100 V AC/DC
• Temperature range: −25℃ to +85℃
 (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: 800 VAC/ minute
• Applicable wire: AWG #32 to #24
• Applicable PC board thickness: 0.8 to 1.6 mm

* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
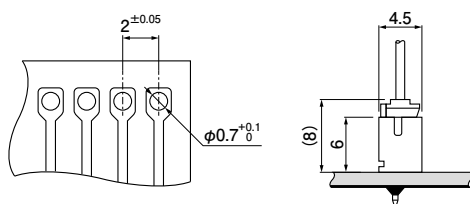* Dimensional unit: mm
* Contact JST for details.
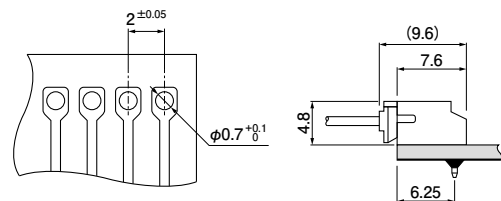
Standards

Ⓤ Recognized E60389
△ R75087

PC board layout and Assembly layout

〈Through-hole type〉

Top entry type

$2^{\pm0.05}$

$\phi0.7^{+0.1}_{0}$

4.5

(8)

6

Side entry type

$2^{\pm0.05}$

$\phi0.7^{+0.1}_{0}$

(9.6)
7.6
4.8
6.25

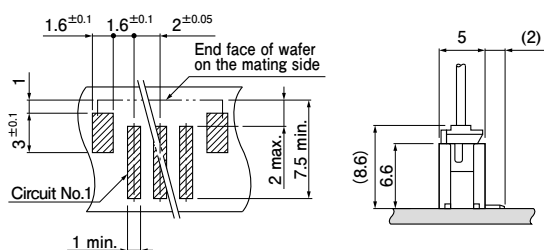Note: 1. The above figure is the figure viewed from soldering side.
 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
 3. Hole dimensions differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type〉

SM4 type
Top entry type

$1.6^{\pm0.1}$ $1.6^{\pm0.1}$ $2^{\pm0.05}$
End face of wafer on the mating side
1
$3^{\pm0.1}$
Circuit No.1
2 max.
7.5 min.
1 min.

5 (2)
(8.6)
6.6

SM4 type
Side entry type

$1.5^{\pm0.1}$ $1.6^{\pm0.1}$ $2^{\pm0.05}$
0.2
End face of wafer on the mating side
$3.4^{\pm0.1}$
5.5 max.
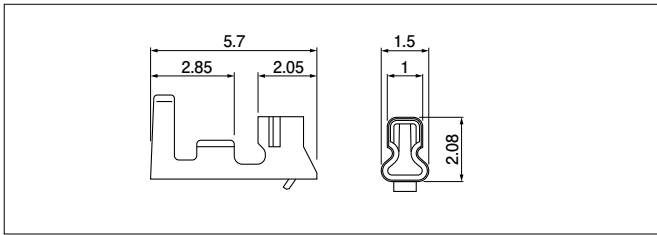9 min.
1 min.
Circuit No.1

(9.6) (1)
7.6
5.5
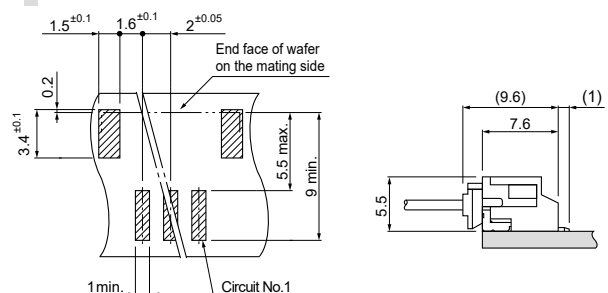
Note: 1. The above figure is the figure viewed from the connector mounting side.
 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
 3. The dimensions above should serve as a guideline. Contact JST for details.

JST 1

PH CONNECTOR

Contact

Model No.	Applicable wire			Q'ty/reel
	mm²	AWG #	Insulation O.D. (mm)	
SPH-002T-P0.5S	0.05 ~ 0.22	30~24	0.8~1.5	8,000
SPH-002T-P0.5L	0.08 ~ 0.22	28~24	0.8~1.5	
SPH-004T-P0.5S	0.032~0.08	32~28	0.5~0.9	10,000

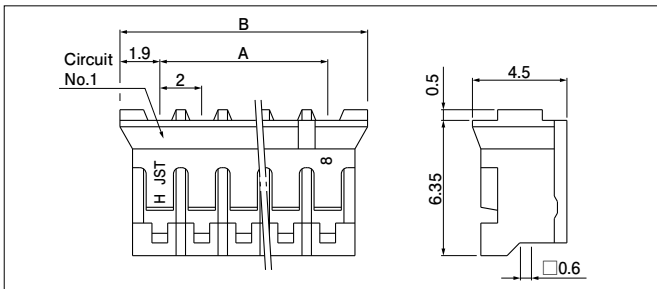| Material and Finish |
|---|
| Phosphor bronze, tin-plated (reflow treatment) |

RoHS2 compliance

Note:
1. Contact JST for gold-plated products.
2. SPH-002T-P0.5L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.
3. Contact JST for details.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
SPH-002T-P0.5L			MK/SPH-002-05L	APLMK SPH002-05L
SPH-004T-P0.5S		MKS-L-10	MK/SPH-002-05S	APLMK SPH004-05S

Note: Contact JST for fully automatic crimping applicator.

Housing

No. of circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000
14	PHR-14	26.0	29.8	1,000
15	PHR-15	28.0	31.8	1,000
16	PHR-16	30.0	33.8	1,000

Material and Finish
PA 66, UL94V-0, natural (white)

RoHS2 compliance

<For reference>   As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex.   PHR-2-oo

(blank)...natural (white)
BK...black   R...red   TR...tomato red   BL...blue   Y...yellow
L...lemon yellow   M...green   D...orange   N...brown
P...purple   PK...pink   H...gray   LE...light blue
FY...vivid yellow   DPK...dark pink

Through-hole type Header

Top entry type

(2 circuits)
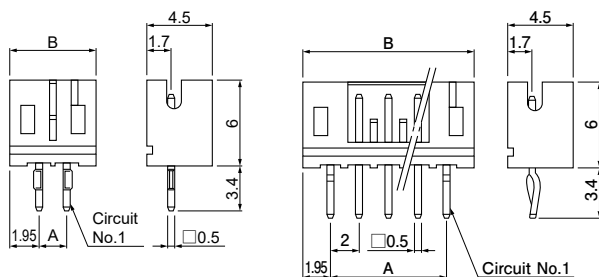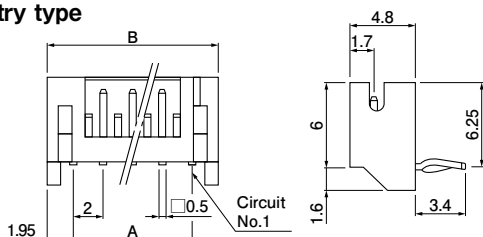
(3 circuits or more)

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-S	S2B-PH-K-S	2.0	5.9	1,000	1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0	7.9	1,000	1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0	9.9	1,000	500
5	B5B-PH-K-S	S5B-PH-K-S	8.0	11.9	1,000	500
6	B6B-PH-K-S	S6B-PH-K-S	10.0	13.9	1,000	500
7	B7B-PH-K-S	S7B-PH-K-S	12.0	15.9	500	500
8	B8B-PH-K-S	S8B-PH-K-S	14.0	17.9	500	250
9	B9B-PH-K-S	S9B-PH-K-S	16.0	19.9	500	250
10	B10B-PH-K-S	S10B-PH-K-S	18.0	21.9	500	250
11	B11B-PH-K-S	S11B-PH-K-S	20.0	23.9	500	250
12	B12B-PH-K-S	S12B-PH-K-S	22.0	25.9	400	250
13	B13B-PH-K-S	S13B-PH-K-S	24.0	27.9	250	250
14	B14B-PH-K-S	S14B-PH-K-S	26.0	29.9	250	250
15	B15B-PH-K-S	S15B-PH-K-S	28.0	31.9	250	200
16	B16B-PH-K-S	S16B-PH-K-S	30.0	33.9	250	200

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS2 compliance   This product displays (LF)(SN) on a label.

<For reference>   As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex.   B2B-PH-K-oo

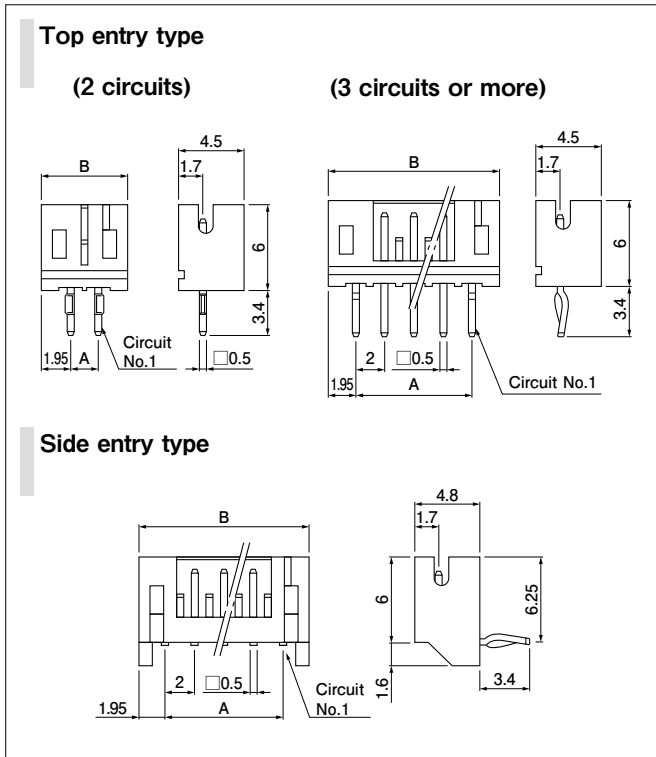S...natural (white)
K...black   R...red   TR...tomato red
E...blue   Y...yellow   L...lemon yellow   M...green
O...orange   N...brown   P...purple   PK...pink   H...gray
LE...light blue   FY...vivid yellow   (blank)...ivory

Through-hole type Header 〈Low insertion force type〉

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-KL	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KL	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KL	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KL	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KL	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KL	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KL	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KL	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KL	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KL	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KL	S12B-PH-KL	22.0	25.9	400	250
13	B13B-PH-KL	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KL	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KL	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KL	S16B-PH-KL	30.0	33.9	250	200

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, gray

RoHS2 compliance   This product displays (LF)(SN) on a label.
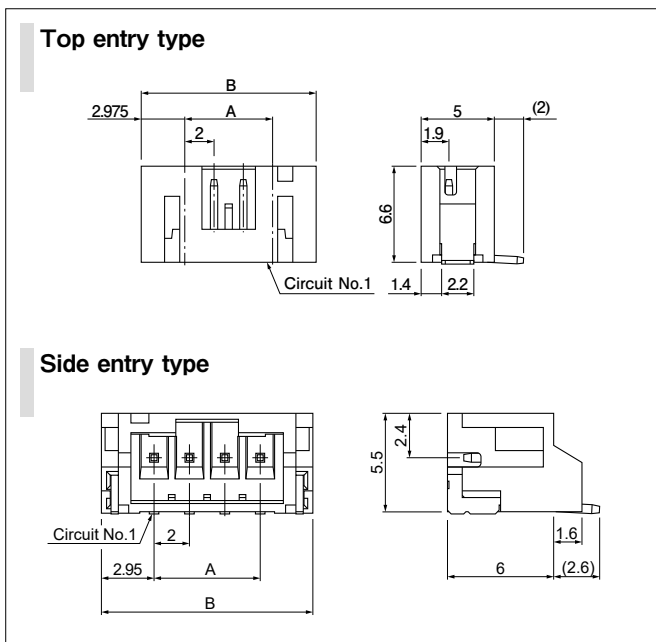
〈For reference〉   As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex.   B2B-PH-KL-oo

(blank)...gray
R...red   E...blue   S...natural (white)

SMT type Header

Top entry type

Side entry type

No. of circuits	Model No.		Dimensions (mm)			Q'ty/ reel
	Top entry type	Side entry type	A	B		
				Top entry type	Side entry type	
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	–	1,000

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS2 compliance   This product displays (LF)(SN) on a label.
Note: Contact JST for the top entry type headers with suction cap.

〈For reference〉   As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex.   B2B-PH-SM4-oo-TB

(blank)...natural (ivory)
R...red   E...blue   M...green   L...lemon yellow   K...black
DPK...dark pink

单击下面可查看定价，库存，交付和生命周期等信息

>>JST(日本圧着端子製造株式会社)