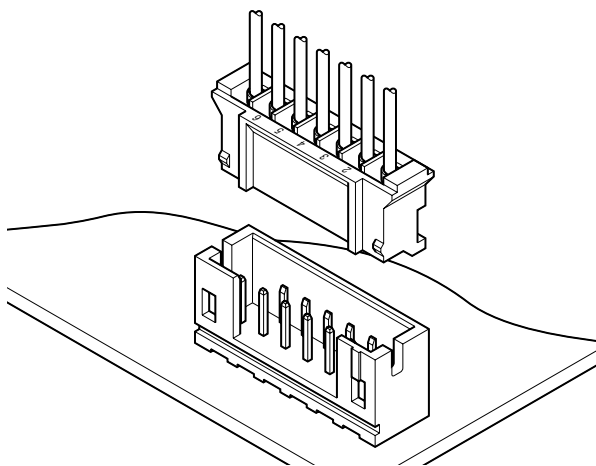


PH CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a thin, low-profile 2.0mm pitch connector 8.0mm in height after mounting and 4.5mm 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: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10m Ω max.
After environmental testing/ 20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/ minute
- Applicable wire: AWG #32 to #24
- Applicable PC board thickness: 0.8 to 1.6mm

- * Compliant with RoHS.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

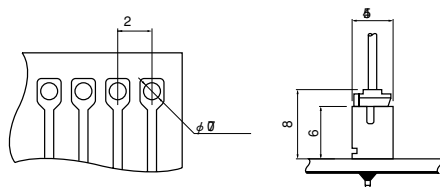
Recognized E60389

Certified LR20812

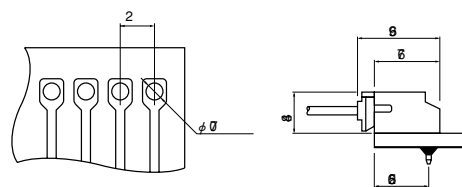
R75087

<Through-hole type (viewed from soldering side) >

Top entry type



Side entry type

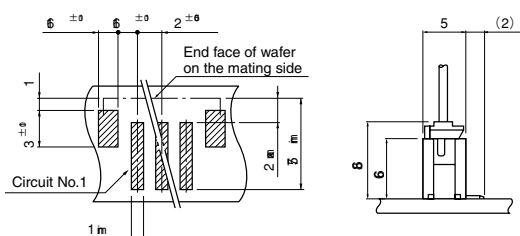


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

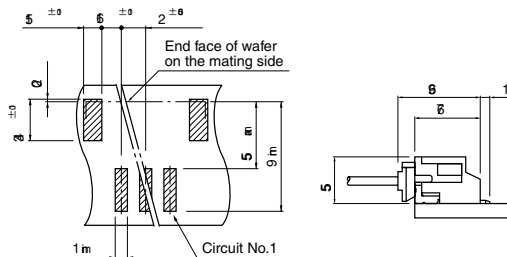
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

<SMT type (viewed from component side) >

SM4 type Top entry type



SM4 type Side entry type

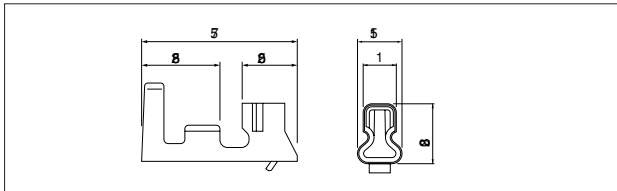


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

PH CONNECTOR

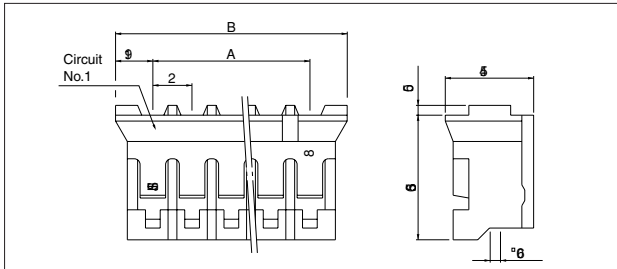
Contact



Model No.	Dimensions (mm)	Material
SPH-002T-P0.5S	5, 8, 8	Phosphor bronze, tin-plated (reflow treatment)
SPH-002T-P0.5L	5, 8, 8	Phosphor bronze, tin-plated (reflow treatment)
SPH-004T-P0.5S	5, 8, 8	Phosphor bronze, tin-plated (reflow treatment)

Note: *Strip-crimp applicator

Housing



<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

Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. (mm)	
SPH-002T-P0.5S	0 ~ 2	0 ~ 2	0 ~ 5	0
SPH-002T-P0.5L	0 ~ 2	2 ~ 2	0 ~ 5	0
SPH-004T-P0.5S	0 ~ 6	2 ~ 2	0 ~ 9	0

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:

- Contact JST for gold-plated products.
- 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.
- Contact JST for details.

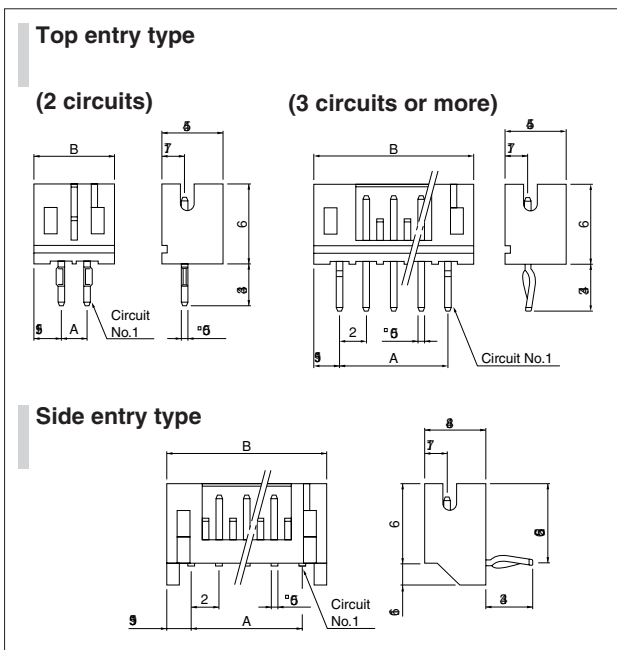
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	0	0	0
3	PHR-3	0	0	0
4	PHR-4	0	0	0
5	PHR-5	0	0	0
6	PHR-6	0	0	0
7	PHR-7	0	0	0
8	PHR-8	0	0	0
9	PHR-9	0	0	0
0	PHR-10	0	0	0
1	PHR-11	0	0	0
2	PHR-12	0	0	0
3	PHR-13	0	0	0
4	PHR-14	0	0	0
5	PHR-15	0	0	0
6	PHR-16	0	0	0

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

Through-hole type shrouded header



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	0	0	0	0
3	B3B-PH-K-S	S3B-PH-K-S	0	0	0	0
4	B4B-PH-K-S	S4B-PH-K-S	0	0	0	0
5	B5B-PH-K-S	S5B-PH-K-S	0	0	0	0
6	B6B-PH-K-S	S6B-PH-K-S	0	0	0	0
7	B7B-PH-K-S	S7B-PH-K-S	0	0	0	0
8	B8B-PH-K-S	S8B-PH-K-S	0	0	0	0
9	B9B-PH-K-S	S9B-PH-K-S	0	0	0	0
0	B10B-PH-K-S	S10B-PH-K-S	0	0	0	0
1	B11B-PH-K-S	S11B-PH-K-S	0	0	0	0
2	B12B-PH-K-S	S12B-PH-K-S	0	0	0	0
3	B13B-PH-K-S	S13B-PH-K-S	0	0	0	0
4	B14B-PH-K-S	S14B-PH-K-S	0	0	0	0
5	B15B-PH-K-S	S15B-PH-K-S	0	0	0	0
6	B16B-PH-K-S	S16B-PH-K-S	0	0	0	0

Material and Finish

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

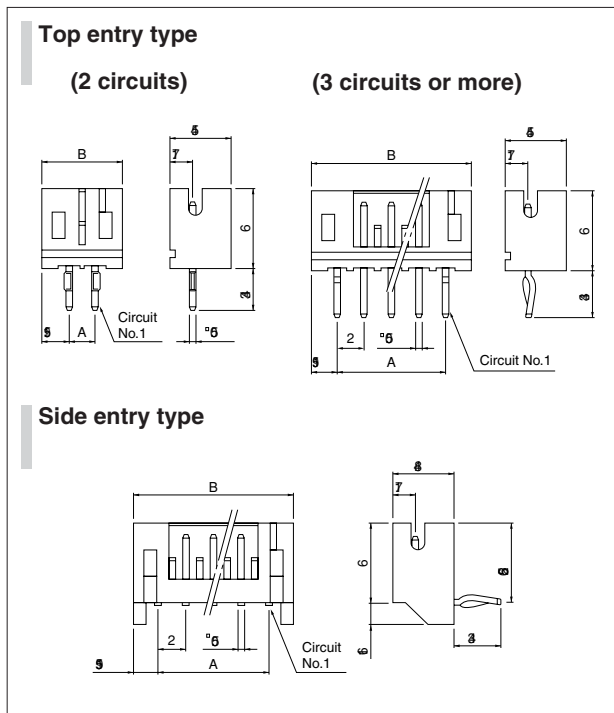
RoHS compliance

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

PH CONNECTOR

Through-hole type shrouded header <Low insertion force type>



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	<u>B2B-PH-KL</u>	<u>S2B-PH-KL</u>	2	9	0	0
3	<u>B3B-PH-KL</u>	<u>S3B-PH-KL</u>	0	9	0	0
4	<u>B4B-PH-KL</u>	<u>S4B-PH-KL</u>	0	9	0	0
5	<u>B5B-PH-KL</u>	<u>S5B-PH-KL</u>	0	9	0	0
6	<u>B6B-PH-KL</u>	<u>S6B-PH-KL</u>	0	9	0	0
7	<u>B7B-PH-KL</u>	<u>S7B-PH-KL</u>	0	9	0	0
8	<u>B8B-PH-KL</u>	<u>S8B-PH-KL</u>	0	9	0	0
9	<u>B9B-PH-KL</u>	<u>S9B-PH-KL</u>	0	9	0	0
0	<u>B10B-PH-KL</u>	<u>S10B-PH-KL</u>	0	9	0	0
1	<u>B11B-PH-KL</u>	<u>S11B-PH-KL</u>	0	9	0	0
2	<u>B12B-PH-KL</u>	<u>S12B-PH-KL</u>	0	9	0	0
3	<u>B13B-PH-KL</u>	<u>S13B-PH-KL</u>	0	9	0	0
4	<u>B14B-PH-KL</u>	<u>S14B-PH-KL</u>	0	9	0	0
5	<u>B15B-PH-KL</u>	<u>S15B-PH-KL</u>	0	9	0	0
6	<u>B16B-PH-KL</u>	<u>S16B-PH-KL</u>	0	9	0	0

Material and Finish

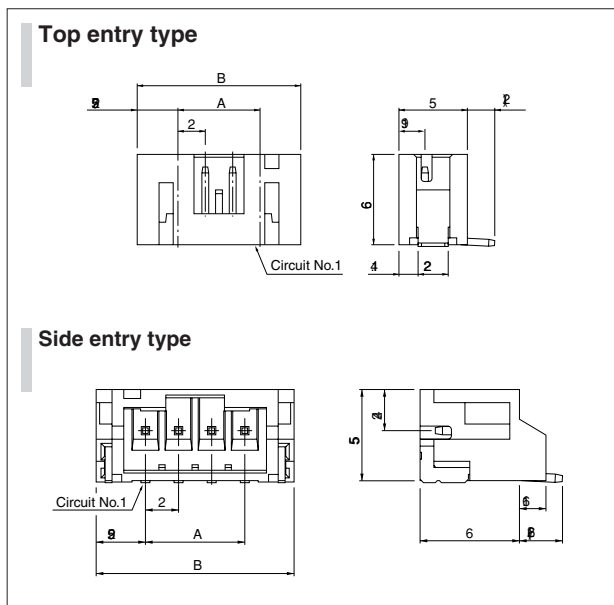
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS 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 shrouded header



Circuits	Model No.		Dimensions (mm)			Q'ty / reel
	Top entry type	Side entry type	A	B		
				Top entry type	Side entry type	
2	<u>B2B-PH-SM4-TB</u>	<u>S2B-PH-SM4-TB</u>	2	5	9	0
3	<u>B3B-PH-SM4-TB</u>	<u>S3B-PH-SM4-TB</u>	0	5	9	0
4	<u>B4B-PH-SM4-TB</u>	<u>S4B-PH-SM4-TB</u>	0	5	9	0
5	<u>B5B-PH-SM4-TB</u>	<u>S5B-PH-SM4-TB</u>	0	5	9	0
6	<u>B6B-PH-SM4-TB</u>	<u>S6B-PH-SM4-TB</u>	0	5	9	0
7	<u>B7B-PH-SM4-TB</u>	<u>S7B-PH-SM4-TB</u>	0	5	9	0
8	<u>B8B-PH-SM4-TB</u>	<u>S8B-PH-SM4-TB</u>	0	5	9	0
9	<u>B9B-PH-SM4-TB</u>	<u>S9B-PH-SM4-TB</u>	0	5	9	0
0	<u>B10B-PH-SM4-TB</u>	<u>S10B-PH-SM4-TB</u>	0	5	9	0
1	<u>B11B-PH-SM4-TB</u>	<u>S11B-PH-SM4-TB</u>	0	5	9	0
2	<u>B12B-PH-SM4-TB</u>	<u>S12B-PH-SM4-TB</u>	0	5	9	0
3	<u>B13B-PH-SM4-TB</u>	<u>S13B-PH-SM4-TB</u>	0	5	9	0
4	<u>B14B-PH-SM4-TB</u>	<u>S14B-PH-SM4-TB</u>	0	5	9	0
5	<u>B15B-PH-SM4-TB</u>	<u>S15B-PH-SM4-TB</u>	0	5	9	0
6	<u>B16B-PH-SM4-TB</u>	—	0	5	—	0

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)

RoHS 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