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

* In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
* Contact JST for details.
* RoHS2 compliance.

Standards

UL Recognized E60389
R75087

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

Top entry type

Side entry type

Note: 1. Tolerances are non-cumulative: ±0.05mm 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: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
PH CONNECTOR

Contact

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable wire</th>
<th>Q'ty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPH-002T-P0.5S</td>
<td>0.5 – 0.22</td>
<td>8,000</td>
</tr>
<tr>
<td>SPH-002T-P0.5L</td>
<td>0.8 – 0.22</td>
<td>10,000</td>
</tr>
<tr>
<td>SPH-004T-P0.5S</td>
<td>0.032 – 0.08</td>
<td></td>
</tr>
</tbody>
</table>

Material and Finish

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.

Housing

Through-hole type shrouded header

RoHS2 compliance

Note:
1. Contact JST for gold-plated products.
2. Contact JST for details.

Material and Finish

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.

    (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

Top entry type

(2 circuits)

Side entry type

(3 circuits or more)

Note: “Strip-crimp applicator”

For availability, delivery and minimum order quantity, contact JST.

    (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 shrouded header

RoHS2 compliance

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

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    L…lemon yellow M…green D…orange N…brown
    P…purple PK…pink H…gray LE…light blue
    FY…vivid yellow DPK…dark pink

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)

Wafer: PA 66, UL94V-0, natural (white)
**PH CONNECTOR**

### Through-hole type shrouded header (Low insertion force type)

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top entry type</td>
<td>Side entry type</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>B2B-PH-KL</td>
<td>S2B-PH-KL</td>
<td>2.0</td>
</tr>
<tr>
<td>3</td>
<td>B3B-PH-KL</td>
<td>S3B-PH-KL</td>
<td>4.0</td>
</tr>
<tr>
<td>4</td>
<td>B4B-PH-KL</td>
<td>S4B-PH-KL</td>
<td>6.0</td>
</tr>
<tr>
<td>5</td>
<td>B5B-PH-KL</td>
<td>S5B-PH-KL</td>
<td>8.0</td>
</tr>
<tr>
<td>6</td>
<td>B6B-PH-KL</td>
<td>S6B-PH-KL</td>
<td>10.0</td>
</tr>
<tr>
<td>7</td>
<td>B7B-PH-KL</td>
<td>S7B-PH-KL</td>
<td>12.0</td>
</tr>
<tr>
<td>8</td>
<td>B8B-PH-KL</td>
<td>S8B-PH-KL</td>
<td>14.0</td>
</tr>
<tr>
<td>9</td>
<td>B9B-PH-KL</td>
<td>S9B-PH-KL</td>
<td>16.0</td>
</tr>
<tr>
<td>10</td>
<td>B10B-PH-KL</td>
<td>S10B-PH-KL</td>
<td>18.0</td>
</tr>
<tr>
<td>11</td>
<td>B11B-PH-KL</td>
<td>S11B-PH-KL</td>
<td>20.0</td>
</tr>
<tr>
<td>12</td>
<td>B12B-PH-KL</td>
<td>S12B-PH-KL</td>
<td>22.0</td>
</tr>
<tr>
<td>13</td>
<td>B13B-PH-KL</td>
<td>S13B-PH-KL</td>
<td>24.0</td>
</tr>
<tr>
<td>14</td>
<td>B14B-PH-KL</td>
<td>S14B-PH-KL</td>
<td>26.0</td>
</tr>
<tr>
<td>15</td>
<td>B15B-PH-KL</td>
<td>S15B-PH-KL</td>
<td>28.0</td>
</tr>
<tr>
<td>16</td>
<td>B16B-PH-KL</td>
<td>S16B-PH-KL</td>
<td>30.0</td>
</tr>
</tbody>
</table>

**Material and Finish**

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

### SMT type shrouded header

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top entry type</td>
<td>Side entry type</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>B2B-PH-SM4-TB</td>
<td>S2B-PH-SM4-TB</td>
<td>2.0</td>
</tr>
<tr>
<td>3</td>
<td>B3B-PH-SM4-TB</td>
<td>S3B-PH-SM4-TB</td>
<td>4.0</td>
</tr>
<tr>
<td>4</td>
<td>B4B-PH-SM4-TB</td>
<td>S4B-PH-SM4-TB</td>
<td>6.0</td>
</tr>
<tr>
<td>5</td>
<td>B5B-PH-SM4-TB</td>
<td>S5B-PH-SM4-TB</td>
<td>8.0</td>
</tr>
<tr>
<td>6</td>
<td>B6B-PH-SM4-TB</td>
<td>S6B-PH-SM4-TB</td>
<td>10.0</td>
</tr>
<tr>
<td>7</td>
<td>B7B-PH-SM4-TB</td>
<td>S7B-PH-SM4-TB</td>
<td>12.0</td>
</tr>
<tr>
<td>8</td>
<td>B8B-PH-SM4-TB</td>
<td>S8B-PH-SM4-TB</td>
<td>14.0</td>
</tr>
<tr>
<td>9</td>
<td>B9B-PH-SM4-TB</td>
<td>S9B-PH-SM4-TB</td>
<td>16.0</td>
</tr>
<tr>
<td>10</td>
<td>B10B-PH-SM4-TB</td>
<td>S10B-PH-SM4-TB</td>
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<td>B11B-PH-SM4-TB</td>
<td>S11B-PH-SM4-TB</td>
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<td>12</td>
<td>B12B-PH-SM4-TB</td>
<td>S12B-PH-SM4-TB</td>
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<tr>
<td>15</td>
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<td>S15B-PH-SM4-TB</td>
<td>28.0</td>
</tr>
<tr>
<td>16</td>
<td>B16B-PH-SM4-TB</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**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.
- For availability, delivery and minimum order quantity, contact JST.

**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-KL-oo

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