The SHD connector is compact with a mounting height of 6.3mm for top entry type and 5.5mm for side entry type, and a width of 5.0mm for top entry type and 5.1mm for side entry type.

- Compact, low profile design
- Anti-misinsertion feature
- Receptacles with protrusions
- Header designed for vacuum pick and place robotics

**Specifications**

- Current rating: 1.0 A AC, DC (AWG #28)
- Voltage rating: 50 V AC, DC
- Temperature range: -25°C to +85°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20 mΩ max.
- After environmental testing/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG #32 to #28
  - Insulation O.D./ 0.4 to 0.8 mm

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

**Standards**

- Recognized E60389
- Certified LR20812

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable wire</th>
<th>Qty / reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSH-003GA-P0.2</td>
<td>mm²</td>
<td>AWG#</td>
</tr>
<tr>
<td></td>
<td>0.032—0.08</td>
<td>32—28</td>
</tr>
<tr>
<td></td>
<td>23,000</td>
<td></td>
</tr>
</tbody>
</table>

**Material and Finish**

- Phosphor bronze, nickel-undercoated, Mating part; gold-plated

**RoHS compliance**

Note: Contact JST for tin-plated products.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Crimping machine</th>
<th>Applicator</th>
<th>Dies</th>
<th>Crimp applicator with die</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSH-003GA-P0.2</td>
<td>AP-K2N</td>
<td>MKS-L-10-3</td>
<td>MKSSH/L-003-02</td>
<td>APPLMK SSHL003-02</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*MKS-SC</td>
<td>SCSSH/L-003-02</td>
<td>APPLSC SSHL003-02</td>
</tr>
</tbody>
</table>

Note: *Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.
**SHD CONNECTOR**

### Housing

- **No. 1 mark**
- **Circuit No. 3**
- **Circuit No. 1**
- **Circuit No. 3**

### Shrouded header

**Top entry type**

- **Header contact**: Phosphor bronze, nickel-undercoated, gold-plated
- **Wafer**: PA, UL94V-0, natural (ivory)
- **Solder tab**: Brass, copper-undercoated, tin-plated (reflow treatment)

**Side entry type**

- **Header contact**: Phosphor bronze, nickel-undercoated, gold-plated
- **Wafer**: PA, UL94V-0, natural (ivory)
- **Solder tab**: Brass, copper-undercoated, tin-plated (reflow treatment)

### Circuits

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Q'ty / box</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>SHDR-20V-S-B</td>
<td>A 9.0  B 11.2  C 13.0</td>
<td>4,000</td>
</tr>
<tr>
<td>30</td>
<td>SHDR-30V-S-B</td>
<td>A 14.0  B 16.2  C 18.0</td>
<td>4,000</td>
</tr>
<tr>
<td>40</td>
<td>SHDR-40V-S-B</td>
<td>A 19.0  B 21.2  C 23.0</td>
<td>2,000</td>
</tr>
<tr>
<td>50</td>
<td>SHDR-50V-S-B</td>
<td>A 24.0  B 26.2  C 28.0</td>
<td>2,000</td>
</tr>
</tbody>
</table>

**Material**
- PBT, UL94V-0, natural (white)

### RoHS compliance
- This product displays (LF)(SN) on a label.

**Note:**
1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.
3. Contact JST for the top entry type headers with suction cap.

### Material and Finish

- Header contact: Phosphor bronze, nickel-undercoated, gold-plated
- Wafer: PA, UL94V-0, natural (ivory)
- Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

### Top entry type with a boss

**Header contact**: Phosphor bronze, nickel-undercoated, gold-plated
**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:**
1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.