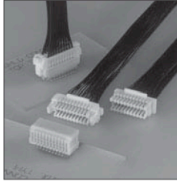


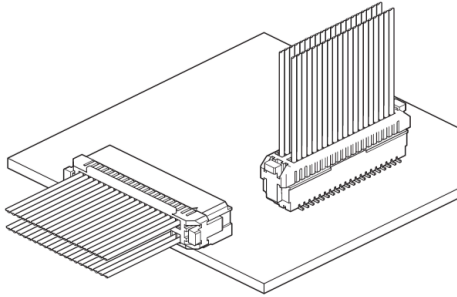
# SHLD Connector

1.0mm pitch / disconnectable crimp style connectors



## SHLD CONNECTOR

1.0mm pitch / Disconnectable Crimp style connectors



**Developed for PDP, LCD or small electronics equipment.**  
**This is a dual-row small crimp type connector with a secure locking system or without-designed for different applications.**  
**The PC board layout is compatible with that of existing SHD connector, which allows for replacement of the above existing connector.**

- Secure housing lock structure (for locking type)
- Prevent deformation of contacts
- A contact lock structure
- Strong structure against external force

### Specifications

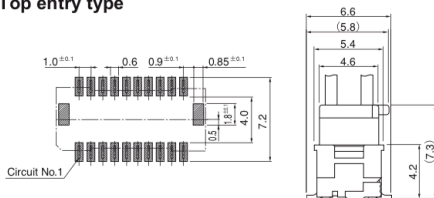
- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.  
After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- \* RoHS compliant products are published.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

### Standards

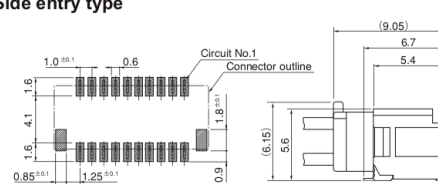
- Recognized E60389

### PC board layout (viewed from component side) and Assembly layout

#### Top entry type

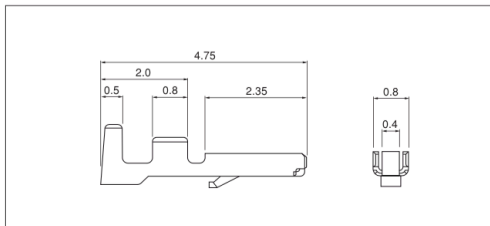


#### Side entry type



Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.  
2. The dimensions above should serve as a guideline. Contact JST for details.

### Contact



| Model No.        | Applicable wire |       | Insulation O.D. (mm) | Q'ty / reel |
|------------------|-----------------|-------|----------------------|-------------|
|                  | mm <sup>2</sup> | AWG#  |                      |             |
| SSHL-003GA1-P0.2 | 0.032~0.08      | 32~28 | 0.4~0.8              | 30,000      |

#### Material and Finish

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

#### RoHS compliance

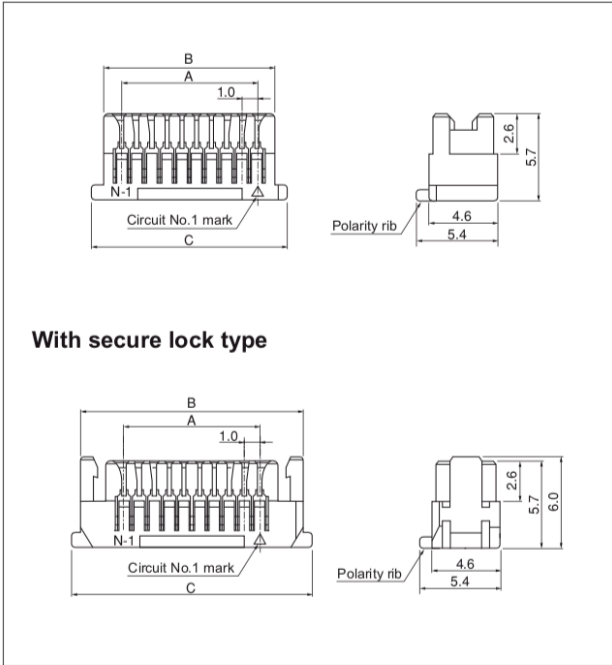
| Contact          | Crimping machine | Applicator       |                |                            |
|------------------|------------------|------------------|----------------|----------------------------|
|                  |                  | Crimp applicator | Dies           | Crimp applicator with dies |
| SSHL-003GA1-P0.2 | AP-K2N           | MKS-L-10-3       | MK/SSHL-003-02 | APLMK SSSL003-02           |
|                  |                  | *MKS-SC          | SC/SSHL-003-02 | APLSC SSSL003-02           |

Note: \*Strip-crimp applicator  
Contact JST for applicable wires in case that it is not usable due to wire size.

# SHLD Connector

## 1.0mm pitch / disconnectable crimp style connectors

### Housing



| Circuits | Model No.             | Dimensions (mm) |      |      | Q'ty / bag |
|----------|-----------------------|-----------------|------|------|------------|
|          |                       | A               | B    | C    |            |
| 20       | <b>SHLDP-20V-S(B)</b> | 9.0             | 11.4 | 13.0 | 3,500      |
| 30       | <b>SHLDP-30V-S(B)</b> | 14.0            | 16.4 | 18.0 | 2,500      |
| 40       | <b>SHLDP-40V-S(B)</b> | 19.0            | 21.4 | 23.0 | 2,000      |
| 50       | <b>SHLDP-50V-S(B)</b> | 24.0            | 26.4 | 28.0 | 1,500      |

#### Material

PBT, UL94V-0, natural (white)

#### RoHS compliance

#### With secure lock type

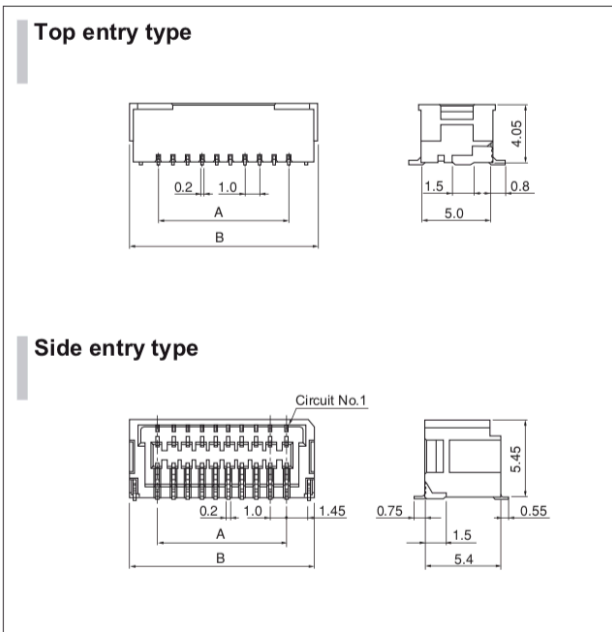
| Circuits | Model No.               | Dimensions (mm) |      |      | Q'ty / bag |
|----------|-------------------------|-----------------|------|------|------------|
|          |                         | A               | B    | C    |            |
| 20       | <b>SHLDP-20V-S-1(B)</b> | 9.0             | 14.7 | 15.7 | 3,000      |
| 30       | <b>SHLDP-30V-S-1(B)</b> | 14.0            | 19.7 | 20.7 | 2,000      |
| 40       | <b>SHLDP-40V-S-1(B)</b> | 19.0            | 24.7 | 25.7 | 1,500      |
| 50       | <b>SHLDP-50V-S-1(B)</b> | 24.0            | 29.7 | 30.7 | 1,200      |

#### Material

PBT, UL94V-0, natural (white)

#### RoHS compliance

### Shrouded header



| Circuits | Model No.                |                         | Dimensions (mm) |      | Q'ty / reel |
|----------|--------------------------|-------------------------|-----------------|------|-------------|
|          | Top entry type           | Side entry type         | A               | B    |             |
| 20       | <b>BM20B-SHLDS-G-TFT</b> | <b>SM20B-SHLDS-G-TF</b> | 9.0             | 13.0 | 1,000       |
| 30       | <b>BM30B-SHLDS-G-TFT</b> | <b>SM30B-SHLDS-G-TF</b> | 14.0            | 18.0 | 1,000       |
| 40       | <b>BM40B-SHLDS-G-TFT</b> | <b>SM40B-SHLDS-G-TF</b> | 19.0            | 23.0 | 1,000       |
| 50       | <b>BM50B-SHLDS-G-TFT</b> | <b>SM50B-SHLDS-G-TF</b> | 24.0            | 28.0 | 1,000       |

#### Material and Finish

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

#### RoHS compliance

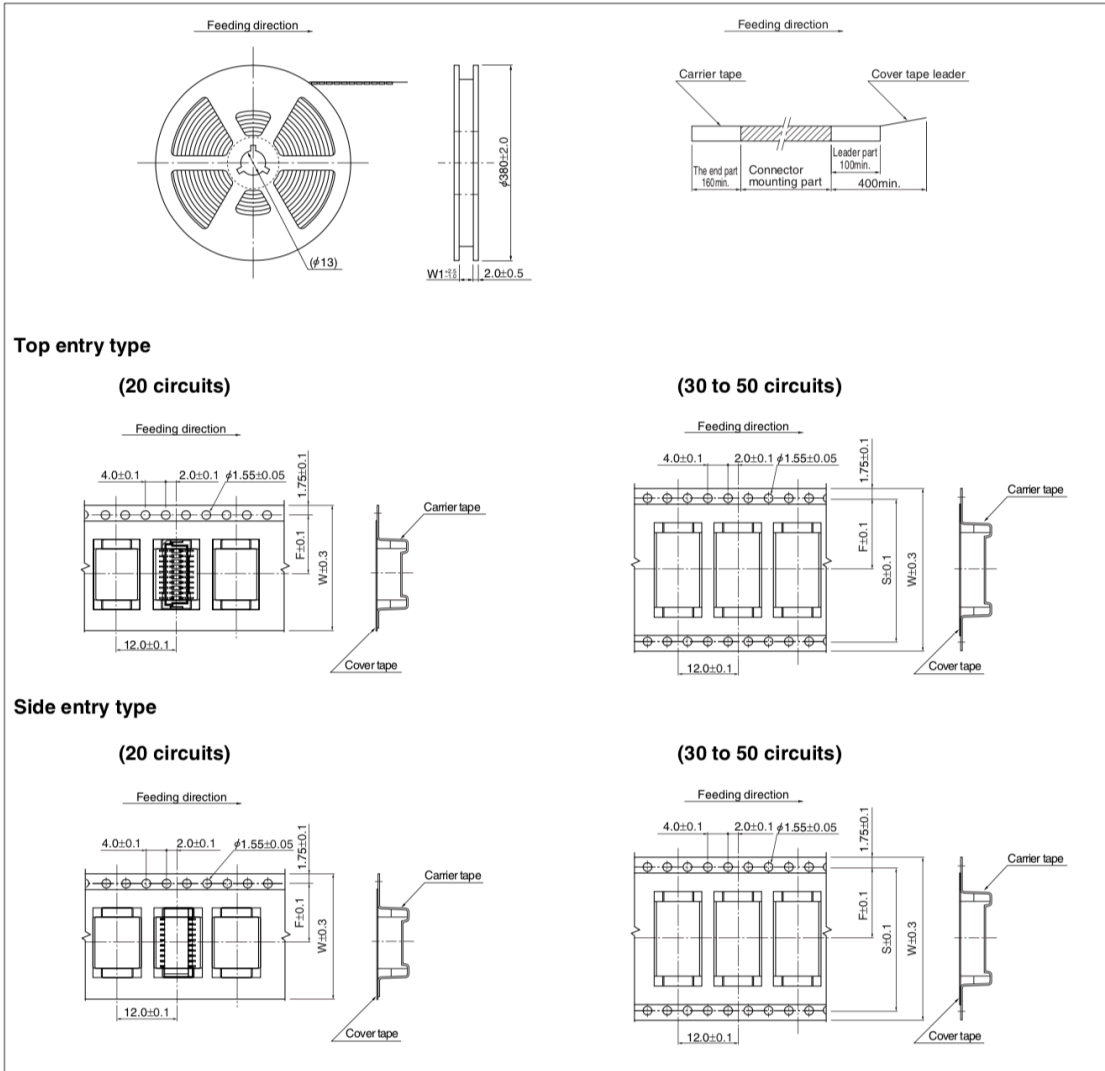
This product displays (LF)(SN) on a label.

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## SHLD CONNECTOR

### Taping specifications



| Circuits | Dimensions (mm) |                 |                |                 |                |                 | Reel dimensions (mm) |                 | Qty / reel     |                 |
|----------|-----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------------|-----------------|----------------|-----------------|
|          | F               |                 | S              |                 | W              |                 | W1                   |                 | Qty / reel     |                 |
|          | Top entry type  | Side entry type | Top entry type | Side entry type | Top entry type | Side entry type | Top entry type       | Side entry type | Top entry type | Side entry type |
| 20       | 11.5            | 11.5            | —              | —               | 24.0           | 24.0            | 25.5                 | 25.5            | 1,000          | 1,000           |
| 30       | 14.2            | 14.2            | 28.4           | 28.4            | 32.0           | 32.0            | 33.5                 | 33.5            | 1,000          | 1,000           |
| 40, 50   | 20.2            | 20.2            | 40.4           | 40.4            | 44.0           | 44.0            | 45.5                 | 45.5            | 1,000          | 1,000           |

**Note:**

- Specifications conform to JIS C 0806. The tape width, connector loading recess square hole dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- Specifications are subject to change without prior notice.