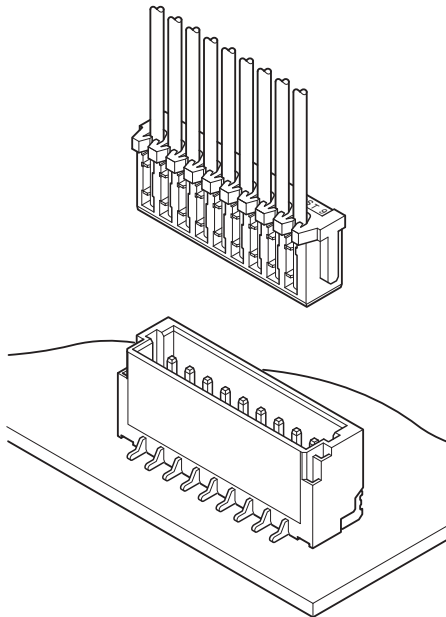


# SR/SZ CONNECTOR

1.0 mm pitch/Wire-to-Board connectors/IDC style and Mating style



- Compact insulation displacement connector
- Header designed for vacuum pick and place robotics
- Twin U-slot insulation displacement section
- 3-point grip construction
- Through-hole type (SZ)

## ■ Standards

TM :Recognized E 60389

CE :Certified LR 20812

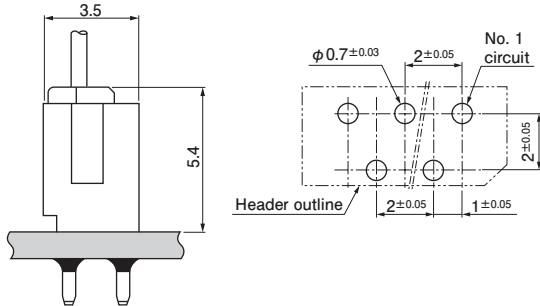
## ■ Specifications

- Current rating: 0.7 A AC/DC
- 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 tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:  
There shall be no breakdown or flashover while applying 500 VAC for one minute.
- Applicable wire range:  
Conductor size/AWG #30  
Conductor/7 strands,  
tin-coated annealed copper  
Insulation O.D./ φ0.54 mm to φ0.58 mm
- \* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

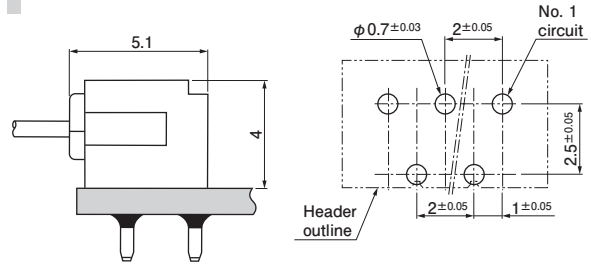
## PC board layout and Assembly layout

### < Through-hole type >

#### Top entry type

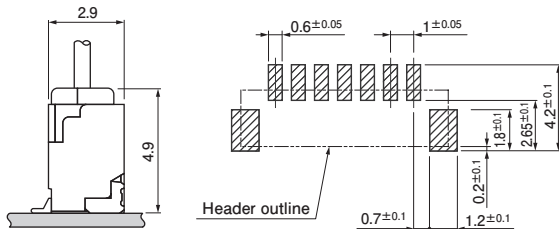


#### Side entry type

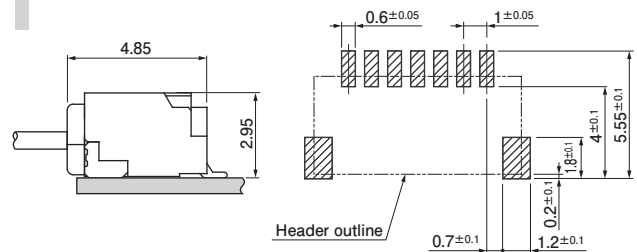


### < SMT type >

#### Top entry type

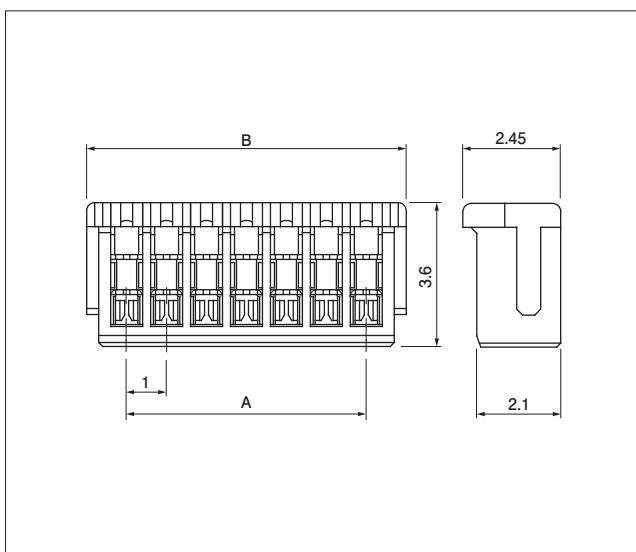


#### Side entry type



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.  
 2. Tolerance for the PCB pattern pitch/PCB hole pitch shall be  $\pm 0.05$  and shall not accumulate.  
 The above dimensions are reference values. Please contact JST for details.  
 3. Hole dimensions differ depending on the type of PCB and PCB drilling method.  
 4. If using double-sided through-hole PC board, it is necessary to confirm the resistance to the soldering heat on the PC board to be used and the soldering condition. Single sided paper based phenolic resin copper-clad PC board (t1.6) is recommended for a PCB used.

## Socket



| No. of circuits | Model No. | Dimensions (mm) |      | Q'ty/box |
|-----------------|-----------|-----------------|------|----------|
|                 |           | A               | B    |          |
| 2               | 02SR-3S   | 1.0             | 3.0  | 2,000    |
| 3               | 03SR-3S   | 2.0             | 4.0  | 2,000    |
| 4               | 04SR-3S   | 3.0             | 5.0  | 2,000    |
| 5               | 05SR-3S   | 4.0             | 6.0  | 2,000    |
| 6               | 06SR-3S   | 5.0             | 7.0  | 2,000    |
| 7               | 07SR-3S   | 6.0             | 8.0  | 2,000    |
| 8               | 08SR-3S   | 7.0             | 9.0  | 2,000    |
| 9               | 09SR-3S   | 8.0             | 10.0 | 2,000    |
| 10              | 10SR-3S   | 9.0             | 11.0 | 2,000    |
| 11              | 11SR-3S   | 10.0            | 12.0 | 2,000    |
| 12              | 12SR-3S   | 11.0            | 13.0 | 2,000    |
| 13              | 13SR-3S   | 12.0            | 14.0 | 2,000    |
| 14              | 14SR-3S   | 13.0            | 15.0 | 2,000    |

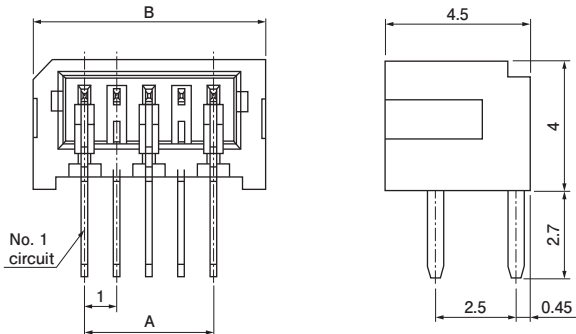
Material and Surface finish, etc.

Contact: Phosphor bronze, tin-plated  
 Housing: PA, UL94V-0, natural

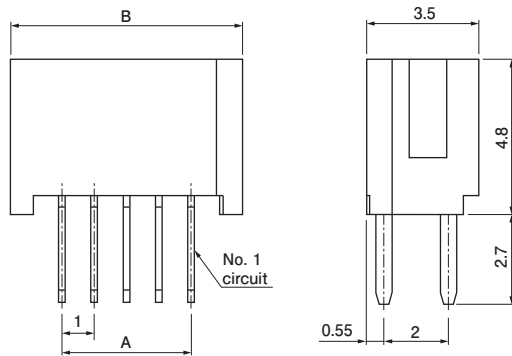
# SR/SZ CONNECTOR

## Header (Through-hole type)

### Side entry type



### Top 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 |
| 3               | B03B-SZ        | S03B-SZ         | 2.0             | 5.2  | 12,825         | 9,405           |
| 4               | B04B-SZ        | S04B-SZ         | 3.0             | 6.2  | 10,800         | 7,920           |
| 5               | B05B-SZ        | S05B-SZ         | 4.0             | 7.2  | 9,225          | 6,765           |
| 6               | B06B-SZ        | S06B-SZ         | 5.0             | 8.2  | 8,100          | 5,940           |
| 7               | B07B-SZ        | S07B-SZ         | 6.0             | 9.2  | 7,200          | 5,280           |
| 8               | B08B-SZ        | —               | 7.0             | 10.2 | 6,525          | —               |
| 9               | B09B-SZ        | —               | 8.0             | 11.2 | 5,850          | —               |
| 11              | B11B-SZ        | —               | 10.0            | 13.2 | 4,950          | —               |
| 14              | *B14B-SZ       | —               | 13.0            | 16.2 | 4,050          | —               |

Material and Surface finish, etc.

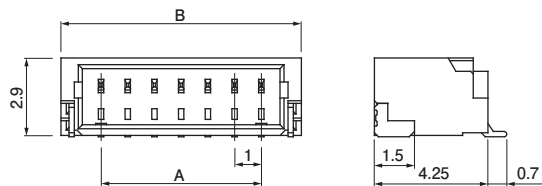
Contact: Brass, tin-plated

Base housing: PBT (Glass-filled), UL94V-0, natural (white)

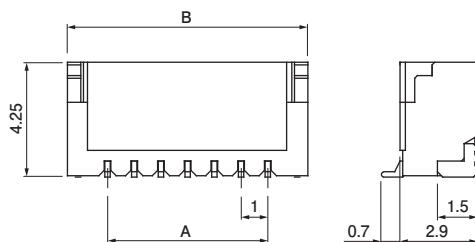
Note: Product marked with an asterisk (\*) is unlisted in UL Standard.

## Header (SMT type)

### Side entry type



### Top 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               | BM02B-SRSS-TB  | SM02B-SRSS-TB   | 1.0             | 4.0  | 1,500          | 3,000           |
| 3               | BM03B-SRSS-TB  | SM03B-SRSS-TB   | 2.0             | 5.0  | 1,500          | 3,000           |
| 4               | BM04B-SRSS-TB  | SM04B-SRSS-TB   | 3.0             | 6.0  | 1,500          | 3,000           |
| 5               | BM05B-SRSS-TB  | SM05B-SRSS-TB   | 4.0             | 7.0  | 1,500          | 3,000           |
| 6               | BM06B-SRSS-TB  | SM06B-SRSS-TB   | 5.0             | 8.0  | 1,500          | 3,000           |
| 7               | BM07B-SRSS-TB  | SM07B-SRSS-TB   | 6.0             | 9.0  | 1,500          | 3,000           |
| 8               | BM08B-SRSS-TB  | SM08B-SRSS-TB   | 7.0             | 10.0 | 1,500          | 3,000           |
| 9               | BM09B-SRSS-TB  | SM09B-SRSS-TB   | 8.0             | 11.0 | 1,500          | 3,000           |
| 10              | BM10B-SRSS-TB  | SM10B-SRSS-TB   | 9.0             | 12.0 | 1,500          | 3,000           |
| 11              | BM11B-SRSS-TB  | SM11B-SRSS-TB   | 10.0            | 13.0 | 1,500          | 3,000           |
| 12              | BM12B-SRSS-TB  | SM12B-SRSS-TB   | 11.0            | 14.0 | 1,500          | 3,000           |
| 13              | BM13B-SRSS-TB  | SM13B-SRSS-TB   | 12.0            | 15.0 | 1,500          | 3,000           |
| 14              | BM14B-SRSS-TB  | SM14B-SRSS-TB   | 13.0            | 16.0 | 1,500          | 3,000           |

Material and Surface finish, etc.

Contact: Copper alloy, copper-underplated, tin-plated

Base housing: PA, UL94V-0, natural

Reinforcement: Brass, copper-underplated, tin-plated

Note: 1. This product displays (LF)(SN) on a label.  
2. This product is supplied on embossed tape and reel packaging.  
3. Top-entry headers with suction tape are also available.  
Please contact JST for details.

Model number allocation

Socket

02SR - BS

No. of circuits

Series name

Applicable wire range: 3...AWG #30

Color: S...Natural

Header (Through-hole type)

S03B - SZLE

Header type:  
B...Through-hole top entry type  
S...Through-hole side entry type

No. of circuits

Assembly product

Series name

Color: Blank...Natural (White), LE...Light blue

Header (SMT type)

BM02B - SRSS - TB

Header type:  
BM...SMT top entry type  
SM...SMT side entry type

No. of circuits

Assembly product

Series name

Color: S...Natural

Sub model number

Packaging style: TB...Embossed-taping

Suction tape: Blank...No, T...Yes