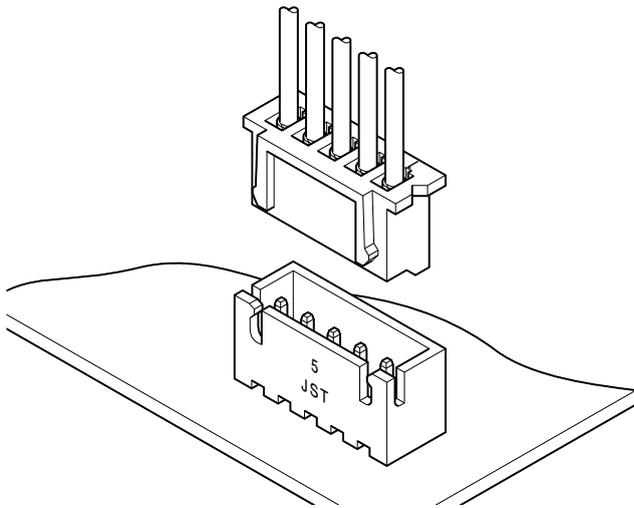


# XH CONNECTOR

2.5 mm pitch/Disconnectable Crimp style connectors



The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8 mm.

- Original folded beam contact
- Box-shaped shrouded header
- Header with a boss
- Interchangeability
- Conforming to the HA terminal

## Specifications

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 250 V AC/DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6 mm

\* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).

- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

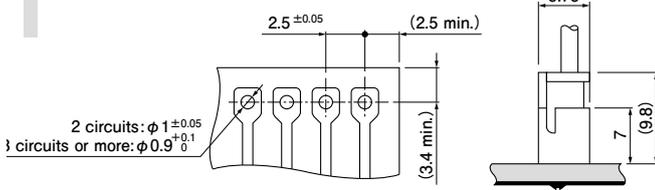
## Standards

- Ⓜ Recognized E60389
- ⚠ J50014297

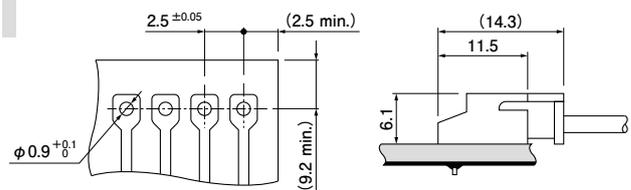
## PC board layout and Assembly layout

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

Top entry type

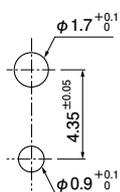


Side entry type

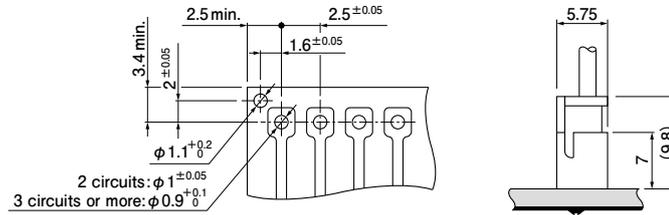


Top entry type with a boss

<Single circuit>



<2 circuits or more>

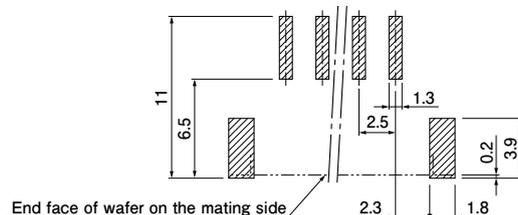


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. Hole dimensions differ according to the type 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 connector mounting side)>

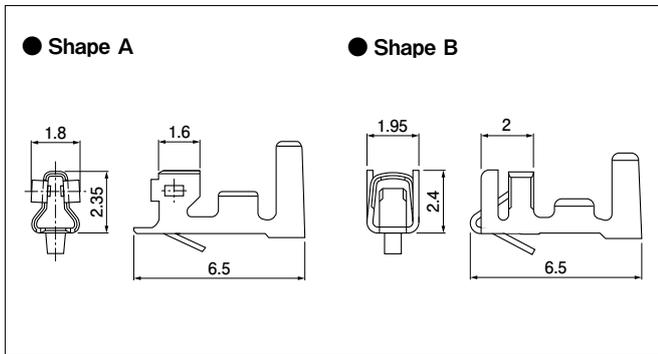
Side entry type



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

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

## Contact



| Model No.      | Shape | Applicable Wire |       | Insulation O.D (mm) | Q'ty/reel |
|----------------|-------|-----------------|-------|---------------------|-----------|
|                |       | mm <sup>2</sup> | AWG#  |                     |           |
| SXH-001T-P0.6N | A     | 0.13~0.33       | 26~22 | 1.3~1.9             | 5,000     |
| SXH-001T-P0.6  | B     | 0.08~0.33       | 28~22 | 0.9~1.9             | 8,000     |
| SXH-002T-P0.6  |       | 0.05~0.13       | 30~26 | 0.9~1.3             |           |

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS2 compliance

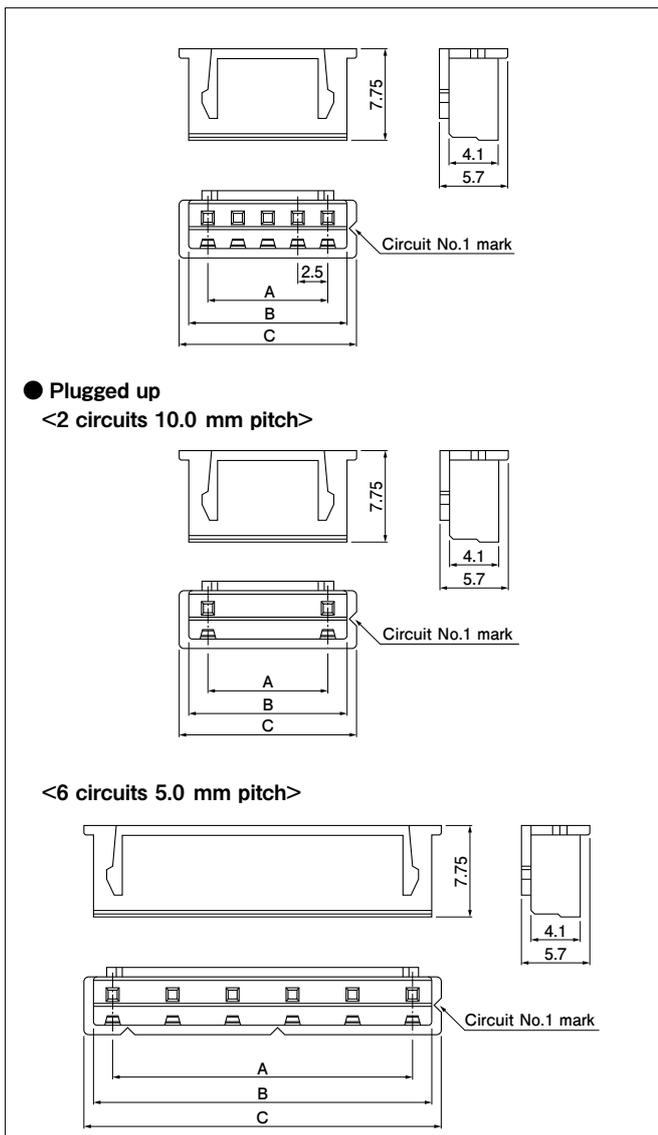
Note:

- Contact JST if you require gold-plated contacts or contacts made of brass.
- Contact JST also if you require shielded wires, thin wires or other special wires.
- SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration.

| Contact        | Crimping machine | Applicator       |                |                            |
|----------------|------------------|------------------|----------------|----------------------------|
|                |                  | Crimp applicator | Dies           | Crimp applicator with dies |
| SXH-001T-P0.6N | AP-K2N           | MKS-L            | MK/SXH-001-06N | APLMK SXH001-06N           |
| SXH-001T-P0.6  |                  |                  | MK/SXH-001-06  | APLMK SXH001-06            |
| SXH-002T-P0.6  |                  |                  | MK/SXH-002-06  | APLMK SXH002-06            |

Note: Contact JST for fully automatic crimping applicator.

## Housing



| No. of circuits | Model No.     | Dimensions (mm) |      |      | Q'ty/bag |
|-----------------|---------------|-----------------|------|------|----------|
|                 |               | A               | B    | C    |          |
| 1               | XHP-1         | —               | 3.2  | 4.8  | 1,000    |
| 2               | XHP-2         | 2.5             | 5.7  | 7.3  | 1,000    |
| 2               | XHP-2(10.0)-U | 10.0            | 13.2 | 14.8 | 1,000    |
| 3               | XHP-3         | 5.0             | 8.2  | 9.8  | 1,000    |
| 4               | XHP-4         | 7.5             | 10.7 | 12.3 | 1,000    |
| 5               | XHP-5         | 10.0            | 13.2 | 14.8 | 1,000    |
| 6               | XHP-6         | 12.5            | 15.7 | 17.3 | 1,000    |
| 6               | XHP-6(5.0)-U  | 25.0            | 28.2 | 29.8 | 1,000    |
| 7               | XHP-7         | 15.0            | 18.2 | 19.8 | 1,000    |
| 8               | XHP-8         | 17.5            | 20.7 | 22.3 | 1,000    |
| 9               | XHP-9         | 20.0            | 23.2 | 24.8 | 1,000    |
| 10              | XHP-10        | 22.5            | 25.7 | 27.3 | 1,000    |
| 11              | XHP-11        | 25.0            | 28.2 | 29.8 | 1,000    |
| 12              | XHP-12        | 27.5            | 30.7 | 32.3 | 1,000    |
| 13              | XHP-13        | 30.0            | 33.2 | 34.8 | 1,000    |
| 14              | XHP-14        | 32.5            | 35.7 | 37.3 | 1,000    |
| 15              | XHP-15        | 35.0            | 38.2 | 39.8 | 1,000    |
| 16              | XHP-16        | 37.5            | 40.7 | 42.3 | 1,000    |
| 20              | XHP-20        | 47.5            | 50.7 | 52.3 | 500      |

### Material and Finish

PA 6, UL94V-0, natural (white)

### RoHS2 compliance

Note:

- XHP-2(10.0)-U is 2 circuits 10.0 mm pitch plugged up. Unlisted in UL/TÜV.
- XHP-6(5.0)-U is 6 circuits 5.0 mm pitch plugged up. Unlisted in UL/TÜV.

<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. **XHP-1-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow

M...green D...orange N...brown FY...vivid yellow

<Plugged up type>

ex. **XHP-2(10.0)-U-oo**

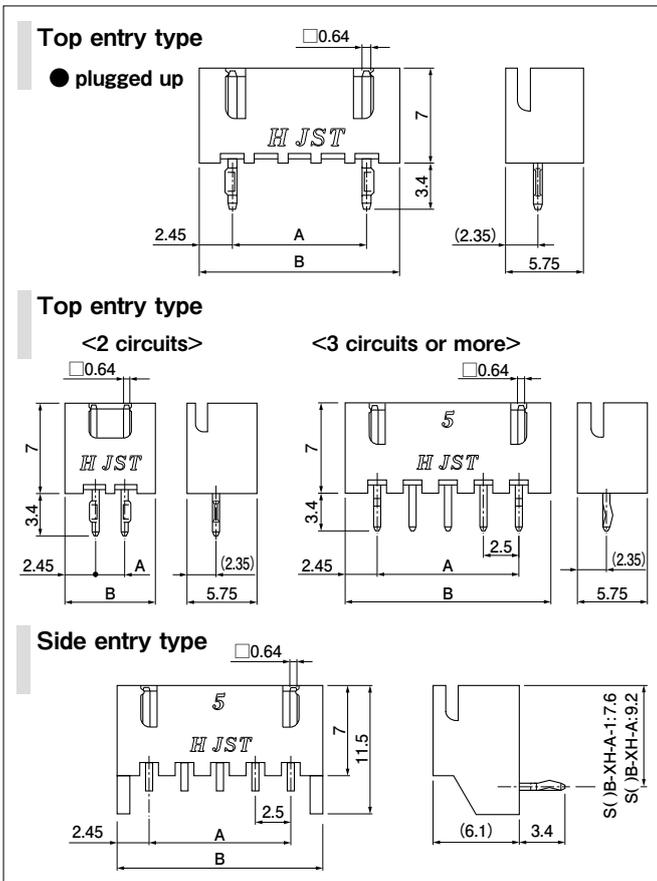
(blank)...natural (white)

R...red E...blue

# XH CONNECTOR

## Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.



| No. of circuits | Model No.        |                 | Dimensions (mm) |      | Q'ty/box       |                 |
|-----------------|------------------|-----------------|-----------------|------|----------------|-----------------|
|                 | Top entry type   | Side entry type | A               | B    | Top entry type | Side entry type |
| 2               | B2B-XH-A         | S2B-XH-A-1      | 2.5             | 7.4  | 1,000          | 1,000           |
| 2               | B2(10.0)B-XH-A-U | —               | 10.0            | 14.9 | 1,000          | —               |
| 3               | B3B-XH-A         | S3B-XH-A-1      | 5.0             | 9.9  | 1,000          | 1,000           |
| 4               | B4B-XH-A         | S4B-XH-A-1      | 7.5             | 12.4 | 500            | 500             |
| 5               | B5B-XH-A         | S5B-XH-A-1      | 10.0            | 14.9 | 500            | 500             |
| 6               | B6B-XH-A         | S6B-XH-A-1      | 12.5            | 17.4 | 500            | 500             |
| 7               | B7B-XH-A         | S7B-XH-A-1      | 15.0            | 19.9 | 500            | 250             |
| 8               | B8B-XH-A         | S8B-XH-A-1      | 17.5            | 22.4 | 250            | 250             |
| 9               | B9B-XH-A         | S9B-XH-A-1      | 20.0            | 24.9 | 250            | 250             |
| 10              | B10B-XH-A        | S10B-XH-A-1     | 22.5            | 27.4 | 250            | 250             |
| 11              | B11B-XH-A        | S11B-XH-A-1     | 25.0            | 29.9 | 250            | 250             |
| 12              | B12B-XH-A        | S12B-XH-A-1     | 27.5            | 32.4 | 250            | 200             |
| 13              | B13B-XH-A        | S13B-XH-A-1     | 30.0            | 34.9 | 250            | 200             |
| 14              | B14B-XH-A        | S14B-XH-A-1     | 32.5            | 37.4 | 250            | 200             |
| 15              | B15B-XH-A        | S15B-XH-A-1     | 35.0            | 39.9 | 250            | 100             |
| 16              | B16B-XH-A        | —               | 37.5            | 42.4 | 200            | 100             |
| 20              | B20B-XH-A        | —               | 47.5            | 52.4 | 100            | —               |

### Material and Finish

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

**RoHS2 compliance** This product displays (LF)(SN) on a label.

Note: B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.

Unlisted in UL/TÜV.

<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.

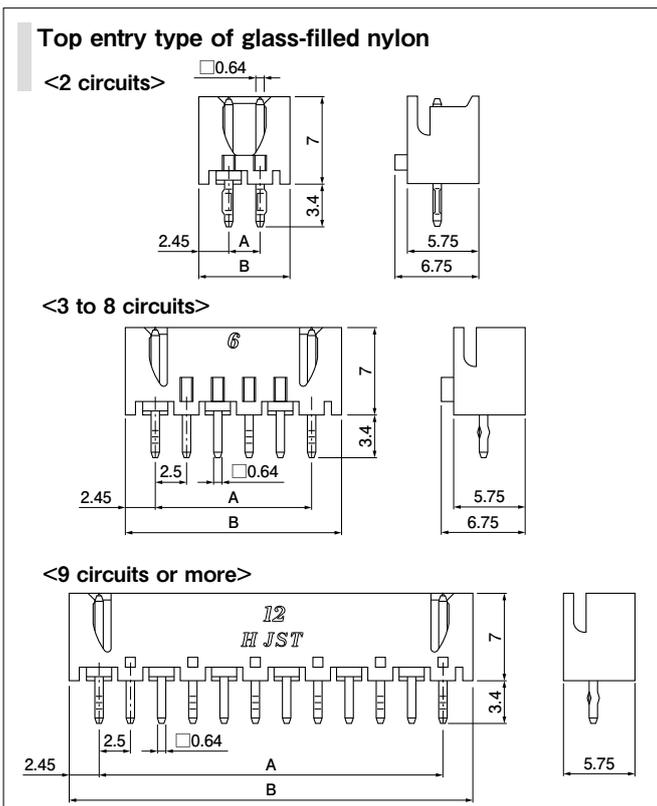
ex. **S3B-XH-A(1)-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow

M...green D...orange N...brown FY...vivid yellow

## Through-hole type shrouded header



| No. of circuits | Model No. | Dimensions (mm) |      | Q'ty/bag |
|-----------------|-----------|-----------------|------|----------|
|                 |           | A               | B    |          |
| 2               | B2B-XH-2  | 2.5             | 7.4  | 1,000    |
| 3               | B3B-XH-2  | 5.0             | 9.9  | 1,000    |
| 4               | B4B-XH-2  | 7.5             | 12.4 | 500      |
| 5               | B5B-XH-2  | 10.0            | 14.9 | 500      |
| 6               | B6B-XH-2  | 12.5            | 17.4 | 500      |
| 7               | B7B-XH-2  | 15.0            | 19.9 | 500      |
| 8               | B8B-XH-2  | 17.5            | 22.4 | 250      |
| 9               | B9B-XH-2  | 20.0            | 24.9 | 250      |
| 10              | B10B-XH-2 | 22.5            | 27.4 | 250      |
| 11              | B11B-XH-2 | 25.0            | 29.9 | 250      |
| 12              | B12B-XH-2 | 27.5            | 32.4 | 250      |
| 13              | B13B-XH-2 | 30.0            | 34.9 | 250      |
| 14              | B14B-XH-2 | 32.5            | 37.4 | 250      |
| 15              | B15B-XH-2 | 35.0            | 39.9 | 250      |

### Material and Finish

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

**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.

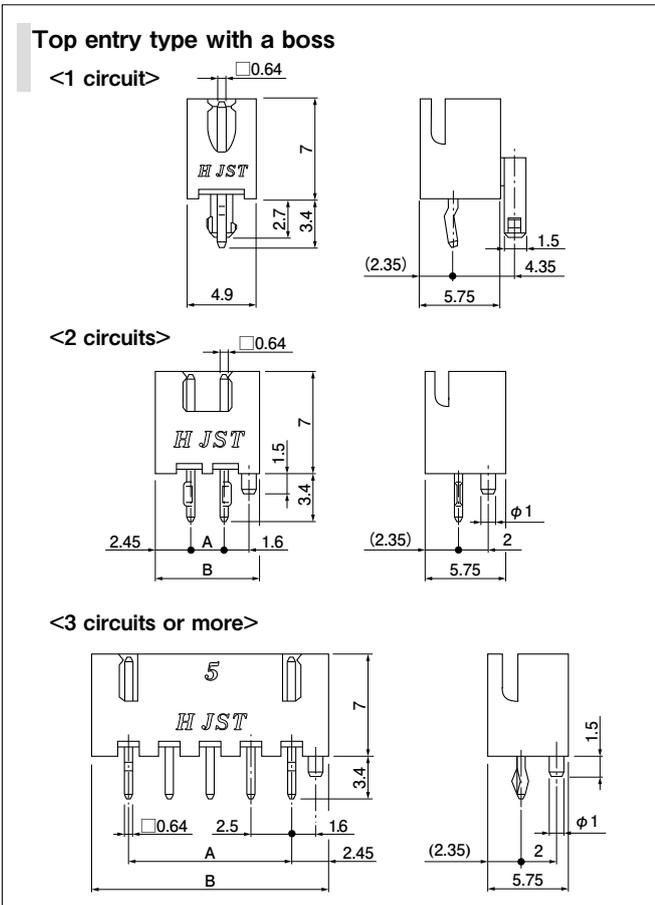
ex. **B2B-XH-2-oo**

(blank)...natural (ivory)

C...black R...red E...blue Y...yellow M...green

## Through-hole type shrouded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.



| No. of circuits | Model No.  | Dimensions (mm) |      | Q'ty/box |
|-----------------|------------|-----------------|------|----------|
|                 |            | A               | B    |          |
| 1               | *B1B-XH-AM | —               | —    | 1,000    |
| 2               | B2B-XH-AM  | 2.5             | 7.4  | 1,000    |
| 3               | B3B-XH-AM  | 5.0             | 9.9  | 1,000    |
| 4               | B4B-XH-AM  | 7.5             | 12.4 | 500      |
| 5               | B5B-XH-AM  | 10.0            | 14.9 | 500      |
| 6               | B6B-XH-AM  | 12.5            | 17.4 | 500      |
| 7               | B7B-XH-AM  | 15.0            | 19.9 | 500      |
| 8               | B8B-XH-AM  | 17.5            | 22.4 | 250      |
| 9               | B9B-XH-AM  | 20.0            | 24.9 | 250      |
| 10              | B10B-XH-AM | 22.5            | 27.4 | 250      |
| 12              | B12B-XH-AM | 27.5            | 32.4 | 250      |

### Material and Finish

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

**RoHS2 compliance** This product displays (LF)(SN) on a label.  
Note: \*Marked product is not UL/TÜV approved.

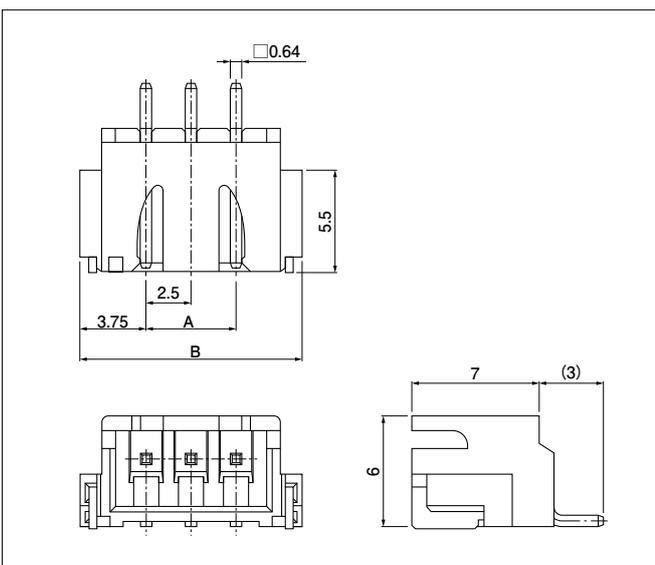
<For reference> As the color identification, the following alphabet shall be put in the underlined part.  
For availability, delivery and minimum order quantity, contact JST.

ex. **B1B-XH-AM-oo**

(blank)...natural (white)

BK...black R...red E...blue Y...yellow L...lemon yellow  
M...green

## SMT type shrouded header



| No. of circuits | Model No.     | Dimensions (mm) |      | Q'ty/reel |
|-----------------|---------------|-----------------|------|-----------|
|                 |               | A               | B    |           |
| 3               | S3B-XH-SM4-TB | 5.0             | 12.5 | 500       |
| 4               | S4B-XH-SM4-TB | 7.5             | 15.0 | 500       |
| 6               | S6B-XH-SM4-TB | 12.5            | 20.0 | 500       |

### Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)  
Wafer: PA 6T, UL94V-0, natural (ivory)  
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS2 compliance** This product displays (LF)(SN) on a label.  
Note: The products listed above are supplied on embossed-tape.

<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.

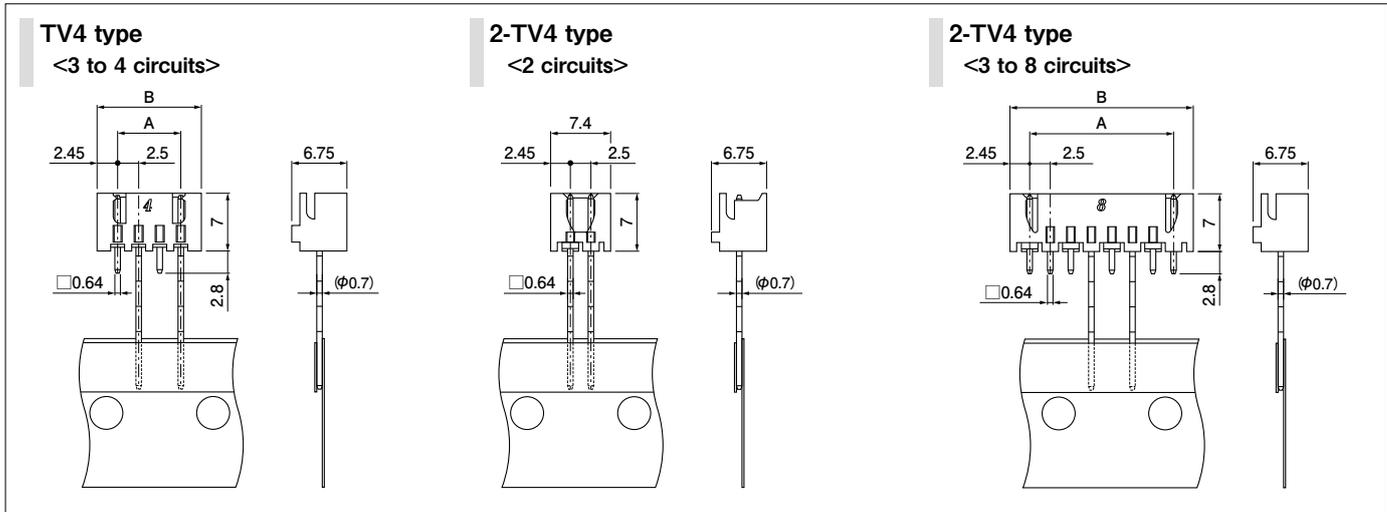
ex. **S3B-XH-SM4-oo-TB**

(blank)...natural (ivory)

M...green R...red E...blue L...lemon yellow

# XH CONNECTOR

## Through-hole type shrouded header on radial-tape



| No. of circuits | Model No.  |              | Dimensions (mm) |      | Q'ty/box |
|-----------------|------------|--------------|-----------------|------|----------|
|                 | TV4        | 2-TV4        | A               | B    |          |
| 2               | —          | B2B-XH-2-TV4 | —               | —    | 1,000    |
| 3               | B3B-XH-TV4 | B3B-XH-2-TV4 | 5.0             | 9.9  | 1,000    |
| 4               | B4B-XH-TV4 | B4B-XH-2-TV4 | 7.5             | 12.4 | 500      |
| 5               | —          | B5B-XH-2-TV4 | 10.0            | 14.9 | 500      |
| 6               | —          | B6B-XH-2-TV4 | 12.5            | 17.4 | 500      |
| 7               | —          | B7B-XH-2-TV4 | 15.0            | 19.9 | 500      |
| 8               | —          | B8B-XH-2-TV4 | 17.5            | 22.4 | 500      |

### Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)  
 Wafer: TV4 type/ PA 66, UL94V-0, natural (white)  
 2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

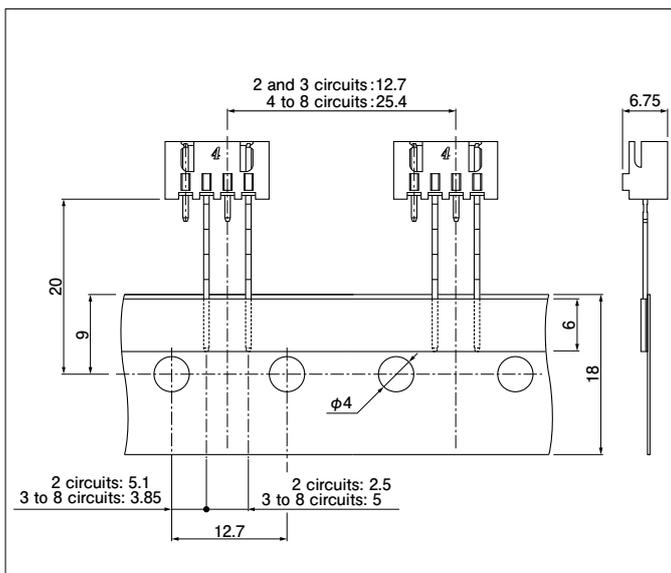
**RoHS2 compliance** This product displays (LF)(SN) on a label.

<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.

ex. B2B-XH-2-TV4-oo

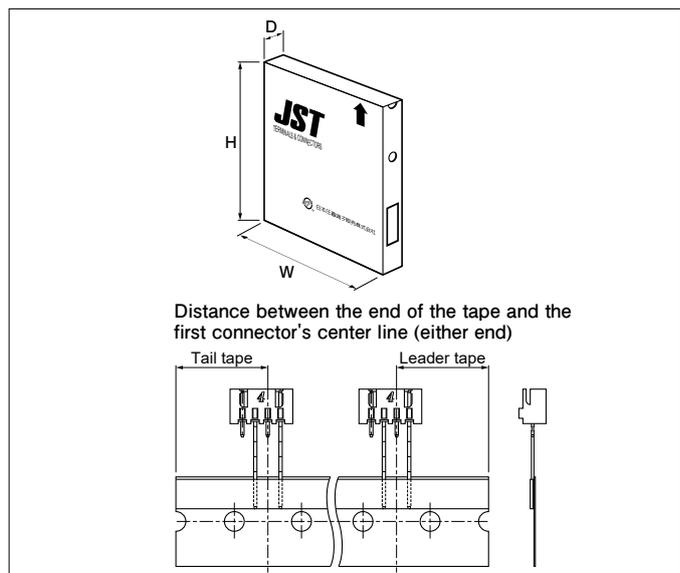
(blank)...natural (TV4 type/white, 2-TV4 type/ivory)  
 C...black (glass-filled) BK...black R...red E...blue Y...yellow  
 M...green

## Taping specification



Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

## Packaging specifications



|   |                                       |                |
|---|---------------------------------------|----------------|
| Package type  | Flat pack (zigzag folded)             |                |
| Distance between folds  | 24 indexing holes per fold (304.8 mm) |                |
| Box size  | 316(W)×45(D)×330(H) mm                |                |
| Distance between the end of the tape and the first connector's center line (either end) | 19.05 mm                              |                |
| Quantity  | 2, 3 circuits                         | 1,000 pcs./box |
|   | 4~8 circuits                          | 500 pcs./box   |

Note: Products of different packaging specifications are also available. Contact JST for details.

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Largest Supplier of Electrical and Electronic Components

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