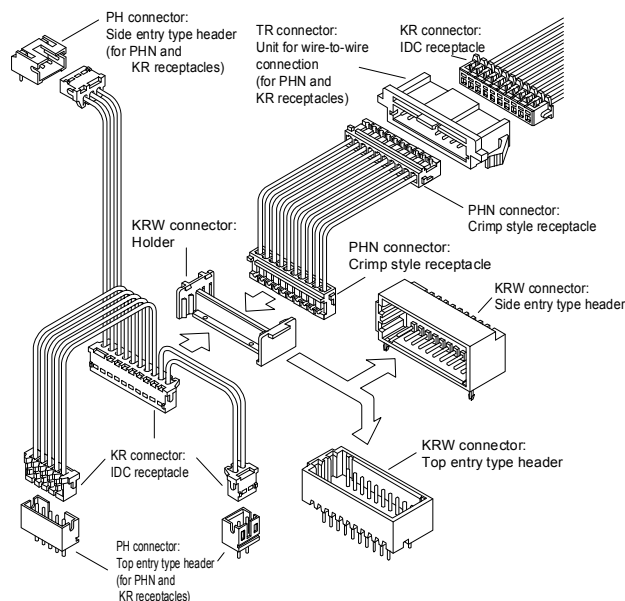


# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

## 2.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



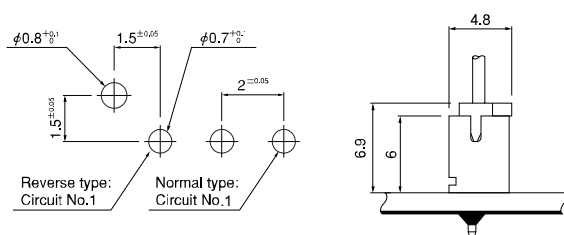
**Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.**

### PC board layout and Assembly layout

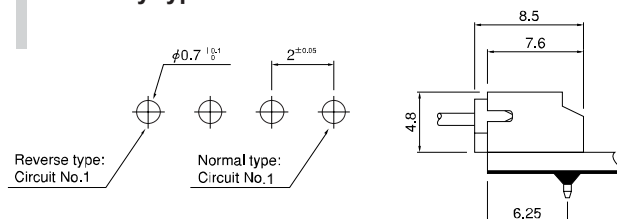
#### Single-row shrouded header

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

##### Top entry type



##### Side entry type



Note: 1. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

- Multi-IDC-harnesses are possible
- Various types of connectors
- Cost reduction
- Two types of circuit layouts

### Specifications

| Item                          | Series | KRW connector   | TR • TRW connector |
|-------------------------------|--------|---|--------------------|
| Current rating                |        | 1.0 A AC, DC (AWG #26)                                  |                    |
| Voltage rating                |        | 100 V AC, DC  |                    |
| Temperature rise              |        | -25°C to +85°C (including temperature rise)             |                    |
| Contact resistance            |        | initial/10 mΩ max. After environmental tests/20 mΩ max. |                    |
| Insulation resistance         |        | 1,000 MΩ min.   |                    |
| Withstanding voltage          |        | 800 VAC/minute  |                    |
| Applicable connector          |        | KR connector, CR connector, PHN connector               |                    |
| Applicable PC board thickness |        | 1.6 mm  | —                  |
| Applicable panel thickness    |        | —   | 0.5 mm to 2 mm     |

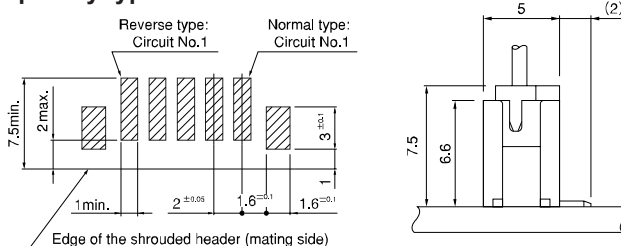
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.
- \* Compliant with RoHS.

### Standards

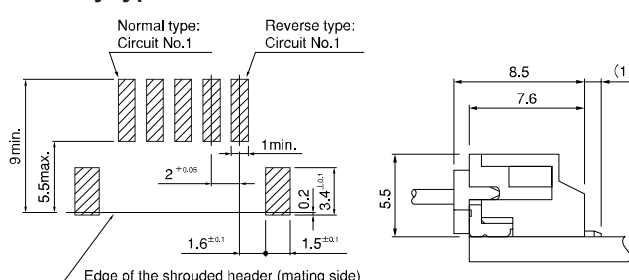
- Recognized E60389
- Certified LR20812
- R75087: PH, PHN connectors

#### <SMTtype (viewed from soldering side)>

##### Top entry type



##### Side entry type



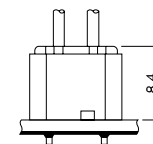
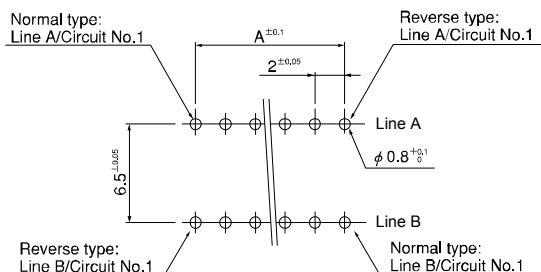
Note: 1. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
2. The dimensions above should serve as a guideline. Contact JST for details.

# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

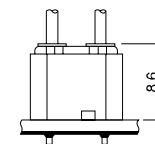
## PC board layout and Assembly layout

### Double-row shrouded header (viewed from component side)

#### Top entry type

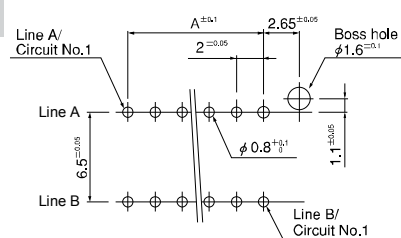


with KR receptacles

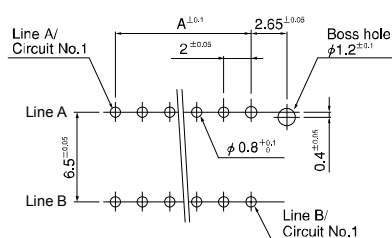


with PHN receptacles

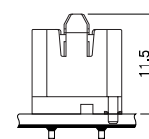
#### With locks



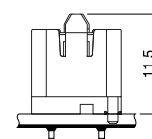
(With a standard boss)



(With a compact boss)



with KR receptacles

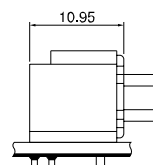
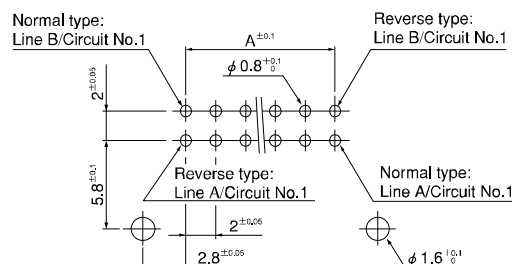


with PHN receptacles

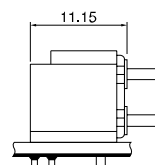
(With a standard boss)

(With a standard boss)

#### Side entry type



with KR receptacles



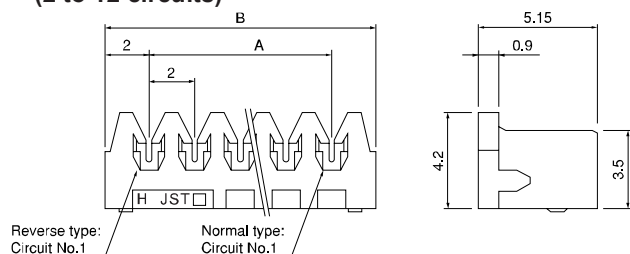
with PHN receptacles

Note: 1. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.

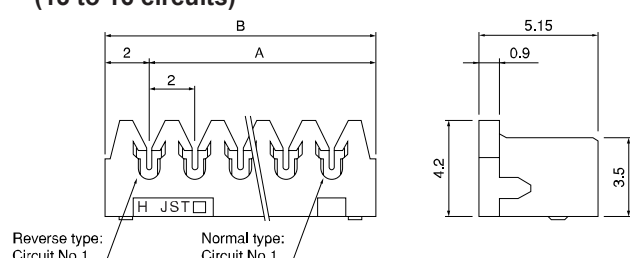
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

## Insulation displacement connector (Receptacle)

### (2 to 12 circuits)



### (13 to 16 circuits)



| Circuits | Model No.   |              | Dimensions (mm) |      | Qty/box |
|----------|-------------|--------------|-----------------|------|---------|
|          | Normal type | Reverse type | A               | B    |         |
| 2        | 02KR-6H-P   | 02KR-6H-PC   | 2.0             | 6.0  | 2,000   |
| 3        | 03KR-6H-P   | 03KR-6H-PC   | 4.0             | 8.0  | 2,000   |
| 4        | 04KR-6H-P   | 04KR-6H-PC   | 6.0             | 10.0 | 2,000   |
| 5        | 05KR-6H-P   | 05KR-6H-PC   | 8.0             | 12.0 | 2,000   |
| 6        | 06KR-6H-P   | 06KR-6H-PC   | 10.0            | 14.0 | 2,000   |
| 7        | 07KR-6H-P   | 07KR-6H-PC   | 12.0            | 16.0 | 1,000   |
| 8        | 08KR-6H-P   | 08KR-6H-PC   | 14.0            | 18.0 | 1,000   |
| 9        | 09KR-6H-P   | 09KR-6H-PC   | 16.0            | 20.0 | 1,000   |
| 10       | 10KR-6H-P   | 10KR-6H-PC   | 18.0            | 22.0 | 1,000   |
| 11       | 11KR-6H-P   | 11KR-6H-PC   | 20.0            | 24.0 | 1,000   |
| 12       | 12KR-6H-P   | 12KR-6H-PC   | 22.0            | 26.0 | 1,000   |
| 13       | 13KR-6H-P   | 13KR-6H-PC   | 24.0            | 28.0 | 500     |
| 14       | 14KR-6H-P   | 14KR-6H-PC   | 26.0            | 30.0 | 500     |
| 15       | 15KR-6H-P   | 15KR-6H-PC   | 28.0            | 32.0 | 500     |
| 16       | 16KR-6H-P   | 16KR-6H-PC   | 30.0            | 34.0 | 500     |

#### Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)  
Housing: 2 to 12 circuits...PA 66, UL94V-0, gray  
13 to 16 circuits...Glass-filled PA 66, UL94V-0, gray

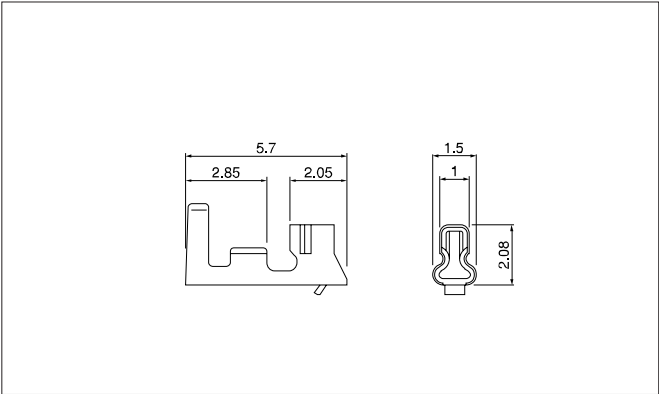
#### Applicable wire

UL1571, 1061(Contact JST for other UL styles.)  
AWG#28, #26  
Conductor / 7 strands, tin-plated annealed copper  
Insulation O.D. / 0.9 to 1.0 mm

RoHS compliance

# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

## Crimp style connector (Contact)



| Model No.      | Applicable wire |       | Insulation O.D.<br>(mm) | Q'ty/<br>reel |
|----------------|-----------------|-------|-------------------------|---------------|
|                | mm <sup>2</sup> | AWG#  |                         |               |
| SPH-002T-P0.5L | 0.08~0.22       | 28~24 | 0.8~1.5                 | 8,000         |

### Material and Finish

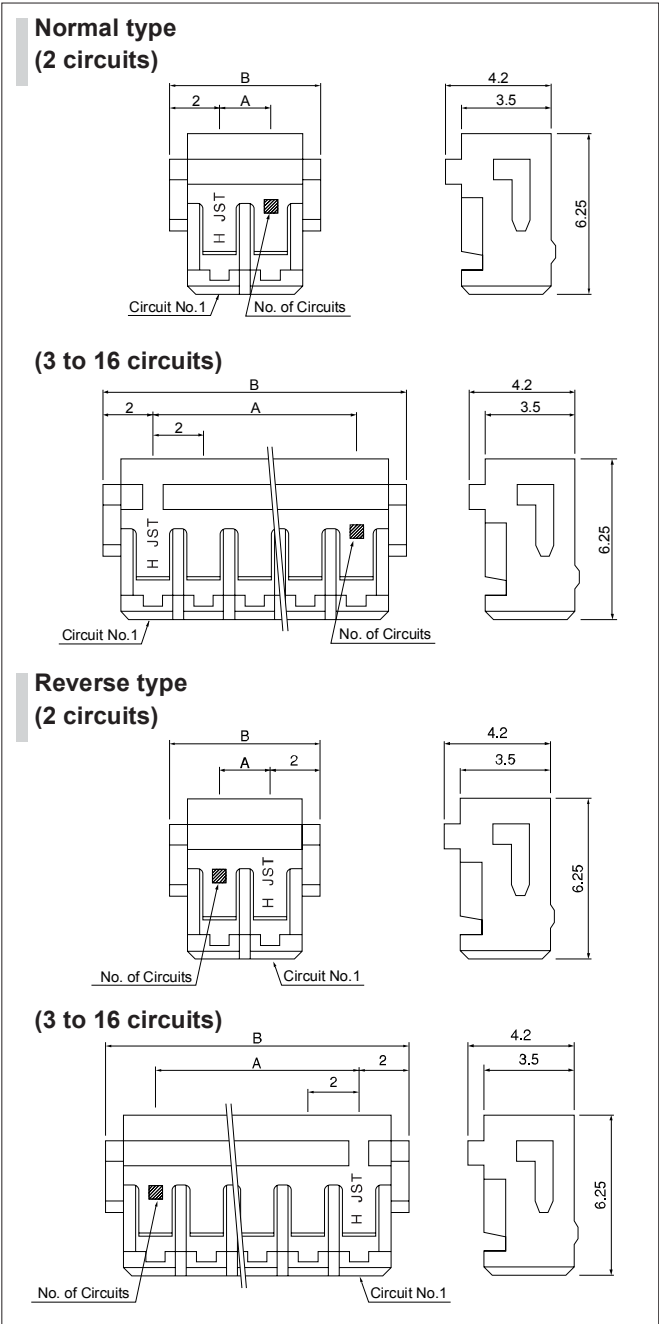
Phosphor bronze, tin-plated (reflow treatment)

**RoHS compliance**  
Note: SPH-002T-P0.5S is also available.

| Contact        | Crimping<br>machine | Applicator       |                |                            |
|----------------|---------------------|------------------|----------------|----------------------------|
|                |                     | Crimp applicator | Dies           | Crimp applicator with dies |
| SPH-002T-P0.5L | AP-K2N              | MKS-L            | MK/SPH-002-05L | APLMK SPH002-05L           |
|                |                     | *MKS-SC          | SC/SPH-002-05L | APLSC SPH002-05L           |

Note: \*Strip-crimp applicator

## Crimp style connector (Housing)



| Circuits | Model No.   |              | Dimensions (mm) |      | Q'ty/<br>bag |
|----------|-------------|--------------|-----------------|------|--------------|
|          | Normal type | Reverse type | A               | B    |              |
| 2        | PHNR-02-H   | PHNR-02C-H   | 2.0             | 6.0  | 1,000        |
| 3        | PHNR-03-H   | PHNR-03C-H   | 4.0             | 8.0  | 1,000        |
| 4        | PHNR-04-H   | PHNR-04C-H   | 6.0             | 10.0 | 1,000        |
| 5        | PHNR-05-H   | PHNR-05C-H   | 8.0             | 12.0 | 1,000        |
| 6        | PHNR-06-H   | PHNR-06C-H   | 10.0            | 14.0 | 1,000        |
| 7        | PHNR-07-H   | PHNR-07C-H   | 12.0            | 16.0 | 1,000        |
| 8        | PHNR-08-H   | PHNR-08C-H   | 14.0            | 18.0 | 1,000        |
| 9        | PHNR-09-H   | PHNR-09C-H   | 16.0            | 20.0 | 1,000        |
| 10       | PHNR-10-H   | PHNR-10C-H   | 18.0            | 22.0 | 1,000        |
| 11       | PHNR-11-H   | PHNR-11C-H   | 20.0            | 24.0 | 1,000        |
| 12       | PHNR-12-H   | PHNR-12C-H   | 22.0            | 26.0 | 1,000        |
| 13       | PHNR-13-H   | PHNR-13C-H   | 24.0            | 28.0 | 1,000        |
| 14       | PHNR-14-H   | PHNR-14C-H   | 26.0            | 30.0 | 1,000        |
| 15       | PHNR-15-H   | PHNR-15C-H   | 28.0            | 32.0 | 1,000        |
| 16       | PHNR-16-H   | PHNR-16C-H   | 30.0            | 34.0 | 1,000        |

### Material

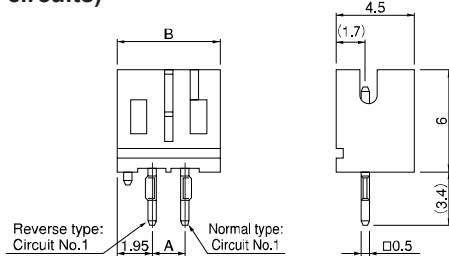
PA 66, UL94V-0, gray

**RoHS compliance**

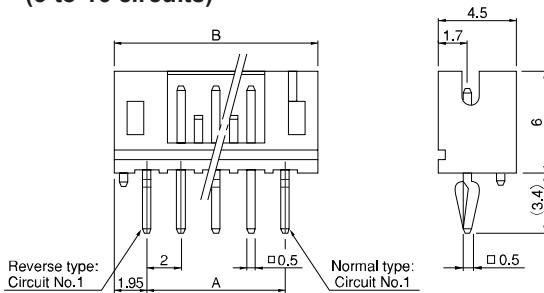
# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

## Single-row shrouded header (Through-hole type)

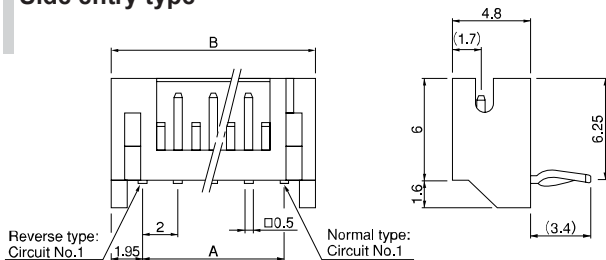
### Top entry type (2 circuits)



### (3 to 16 circuits)



### Side entry type



| Circuits | Normal type Model No.      |                 | Dimensions (mm) |      | Q'ty/box                     |                 |
|----------|----------------------------|-----------------|-----------------|------|------------------------------|-----------------|
|          | Top entry type (with boss) | Side entry type | A               | B    | Top entry type (with a boss) | Side entry type |
| 2        | B2B-PH-KBL-H               | S2B-PH-KL       | 2.0             | 5.9  | 1,000                        | 1,000           |
| 3        | B3B-PH-KBL-H               | S3B-PH-KL       | 4.0             | 7.9  | 1,000                        | 1,000           |
| 4        | B4B-PH-KBL-H               | S4B-PH-KL       | 6.0             | 9.9  | 1,000                        | 500             |
| 5        | B5B-PH-KBL-H               | S5B-PH-KL       | 8.0             | 11.9 | 1,000                        | 500             |
| 6        | B6B-PH-KBL-H               | S6B-PH-KL       | 10.0            | 13.9 | 1,000                        | 500             |
| 7        | B7B-PH-KBL-H               | S7B-PH-KL       | 12.0            | 15.9 | 500                          | 500             |
| 8        | B8B-PH-KBL-H               | S8B-PH-KL       | 14.0            | 17.9 | 500                          | 250             |
| 9        | B9B-PH-KBL-H               | S9B-PH-KL       | 16.0            | 19.9 | 500                          | 250             |
| 10       | B10B-PH-KBL-H              | S10B-PH-KL      | 18.0            | 21.9 | 500                          | 250             |
| 11       | B11B-PH-KBL-H              | S11B-PH-KL      | 20.0            | 23.9 | 500                          | 250             |
| 12       | B12B-PH-KBL-H              | S12B-PH-KL      | 22.0            | 25.9 | 500                          | 250             |
| 13       | B13B-PH-KBL-H              | S13B-PH-KL      | 24.0            | 27.9 | 250                          | 250             |
| 14       | B14B-PH-KBL-H              | S14B-PH-KL      | 26.0            | 29.9 | 250                          | 200             |
| 15       | B15B-PH-KBL-H              | S15B-PH-KL      | 28.0            | 31.9 | 250                          | 200             |
| 16       | B16B-PH-KBL-H              | S16B-PH-KL      | 30.0            | 33.9 | 250                          | 200             |

| Circuits | Reverse type Model No.     |                 | Dimensions (mm) |      | Q'ty/box                     |                 |
|----------|----------------------------|-----------------|-----------------|------|------------------------------|-----------------|
|          | Top entry type (with boss) | Side entry type | A               | B    | Top entry type (with a boss) | Side entry type |
| 2        | B2B-PH-KBLC-H              | S2B-PH-KLC-H    | 2.0             | 5.9  | 1,000                        | 1,000           |
| 3        | B3B-PH-KBLC-H              | S3B-PH-KLC-H    | 4.0             | 7.9  | 1,000                        | 1,000           |
| 4        | B4B-PH-KBLC-H              | S4B-PH-KLC-H    | 6.0             | 9.9  | 1,000                        | 500             |
| 5        | B5B-PH-KBLC-H              | S5B-PH-KLC-H    | 8.0             | 11.9 | 1,000                        | 500             |
| 6        | B6B-PH-KBLC-H              | S6B-PH-KLC-H    | 10.0            | 13.9 | 1,000                        | 500             |
| 7        | B7B-PH-KBLC-H              | S7B-PH-KLC-H    | 12.0            | 15.9 | 500                          | 500             |
| 8        | B8B-PH-KBLC-H              | S8B-PH-KLC-H    | 14.0            | 17.9 | 500                          | 250             |
| 9        | B9B-PH-KBLC-H              | S9B-PH-KLC-H    | 16.0            | 19.9 | 500                          | 250             |
| 10       | B10B-PH-KBLC-H             | S10B-PH-KLC-H   | 18.0            | 21.9 | 500                          | 250             |
| 11       | B11B-PH-KBLC-H             | S11B-PH-KLC-H   | 20.0            | 23.9 | 500                          | 250             |
| 12       | B12B-PH-KBLC-H             | S12B-PH-KLC-H   | 22.0            | 25.9 | 500                          | 250             |
| 13       | B13B-PH-KBLC-H             | S13B-PH-KLC-H   | 24.0            | 27.9 | 250                          | 250             |
| 14       | B14B-PH-KBLC-H             | S14B-PH-KLC-H   | 26.0            | 29.9 | 250                          | 200             |
| 15       | B15B-PH-KBLC-H             | S15B-PH-KLC-H   | 28.0            | 31.9 | 250                          | 200             |
| 16       | B16B-PH-KBLC-H             | S16B-PH-KLC-H   | 30.0            | 33.9 | 250                          | 200             |

#### Material and Finish

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

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

Note: 1. Top entry type headers without a bosses are also available.

2. PH connector header [B( )B-PH-K-S, S( )B-PH-K-S] can be also used.  
( ) stands for circuits No.

<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-KBLC-H**

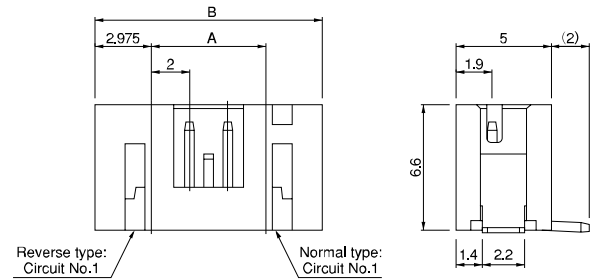
H...gray S...white Y...yellow R...red N...brown

K...black (blank)...gray (normal side entry type only)

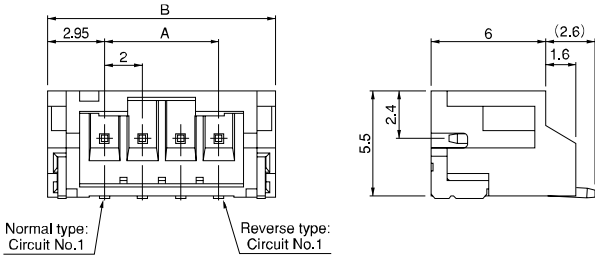
KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

Single-row shrouded header (SMT type)

Top entry type



Side entry type



| Circuits | Normal type Model No. |                 | Dimensions (mm) |                |                 | Q'ty/<br>reel |
|----------|-----------------------|-----------------|-----------------|----------------|-----------------|---------------|
|          |                       |                 | A               | B              |                 |               |
|          | Top entry type        | Side entry type |                 | Top entry type | Side entry type |               |
| 2        | B2B-PH-SM4-TB         | S2B-PH-SM4-TB   | 2.0             | 7.95           | 7.9             | 1,000         |
| 3        | B3B-PH-SM4-TB         | S3B-PH-SM4-TB   | 4.0             | 9.95           | 9.9             | 1,000         |
| 4        | B4B-PH-SM4-TB         | S4B-PH-SM4-TB   | 6.0             | 11.95          | 11.9            | 1,000         |
| 5        | B5B-PH-SM4-TB         | S5B-PH-SM4-TB   | 8.0             | 13.95          | 13.9            | 1,000         |
| 6        | B6B-PH-SM4-TB         | S6B-PH-SM4-TB   | 10.0            | 15.95          | 15.9            | 1,000         |
| 7        | B7B-PH-SM4-TB         | S7B-PH-SM4-TB   | 12.0            | 17.95          | 17.9            | 1,000         |
| 8        | B8B-PH-SM4-TB         | S8B-PH-SM4-TB   | 14.0            | 19.95          | 19.9            | 1,000         |
| 9        | B9B-PH-SM4-TB         | S9B-PH-SM4-TB   | 16.0            | 21.95          | 21.9            | 1,000         |
| 10       | B10B-PH-SM4-TB        | S10B-PH-SM4-TB  | 18.0            | 23.95          | 23.9            | 1,000         |
| 11       | B11B-PH-SM4-TB        | S11B-PH-SM4-TB  | 20.0            | 25.95          | 25.9            | 1,000         |
| 12       | B12B-PH-SM4-TB        | S12B-PH-SM4-TB  | 22.0            | 27.95          | 27.9            | 1,000         |
| 13       | B13B-PH-SM4-TB        | S13B-PH-SM4-TB  | 24.0            | 29.95          | 29.9            | 1,000         |
| 14       | B14B-PH-SM4-TB        | S14B-PH-SM4-TB  | 26.0            | 31.95          | 31.9            | 1,000         |
| 15       | B15B-PH-SM4-TB        | S15B-PH-SM4-TB  | 28.0            | 33.95          | 33.9            | 1,000         |
| 16       | B16B-PH-SM4-TB        | —               | 30.0            | 35.95          | —               | 1,000         |

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)

**RoHS compliance** This product displays (LF)(SN) on a label.  
Note: Top entry type headers with suction tape are also available.

| Circuits | Reverse type Model No. |                 | Dimensions (mm) |      | Q'ty/<br>reel |
|----------|------------------------|-----------------|-----------------|------|---------------|
|          |                        |                 | A               | B    |               |
|          | Top entry type         | Side entry type |                 |      |               |
| 2        | B2B-PH-SM4C-TB         | S2B-PH-SM4C-TB  | 2.0             | 7.9  | 1,000         |
| 3        | B3B-PH-SM4C-TB         | S3B-PH-SM4C-TB  | 4.0             | 9.9  | 1,000         |
| 4        | B4B-PH-SM4C-TB         | S4B-PH-SM4C-TB  | 6.0             | 11.9 | 1,000         |
| 5        | B5B-PH-SM4C-TB         | S5B-PH-SM4C-TB  | 8.0             | 13.9 | 1,000         |
| 6        | B6B-PH-SM4C-TB         | S6B-PH-SM4C-TB  | 10.0            | 15.9 | 1,000         |
| 7        | B7B-PH-SM4C-TB         | S7B-PH-SM4C-TB  | 12.0            | 17.9 | 1,000         |
| 8        | B8B-PH-SM4C-TB         | S8B-PH-SM4C-TB  | 14.0            | 19.9 | 1,000         |
| 9        | B9B-PH-SM4C-TB         | S9B-PH-SM4C-TB  | 16.0            | 21.9 | 1,000         |
| 10       | B10B-PH-SM4C-TB        | S10B-PH-SM4C-TB | 18.0            | 23.9 | 1,000         |
| 11       | B11B-PH-SM4C-TB        | S11B-PH-SM4C-TB | 20.0            | 25.9 | 1,000         |
| 12       | B12B-PH-SM4C-TB        | S12B-PH-SM4C-TB | 22.0            | 27.9 | 1,000         |
| 13       | B13B-PH-SM4C-TB        | S13B-PH-SM4C-TB | 24.0            | 29.9 | 1,000         |
| 14       | B14B-PH-SM4C-TB        | S14B-PH-SM4C-TB | 26.0            | 31.9 | 1,000         |
| 15       | B15B-PH-SM4C-TB        | S15B-PH-SM4C-TB | 28.0            | 33.9 | 1,000         |
| 16       | B16B-PH-SM4C-TB        | —               | 30.0            | 35.9 | 1,000         |

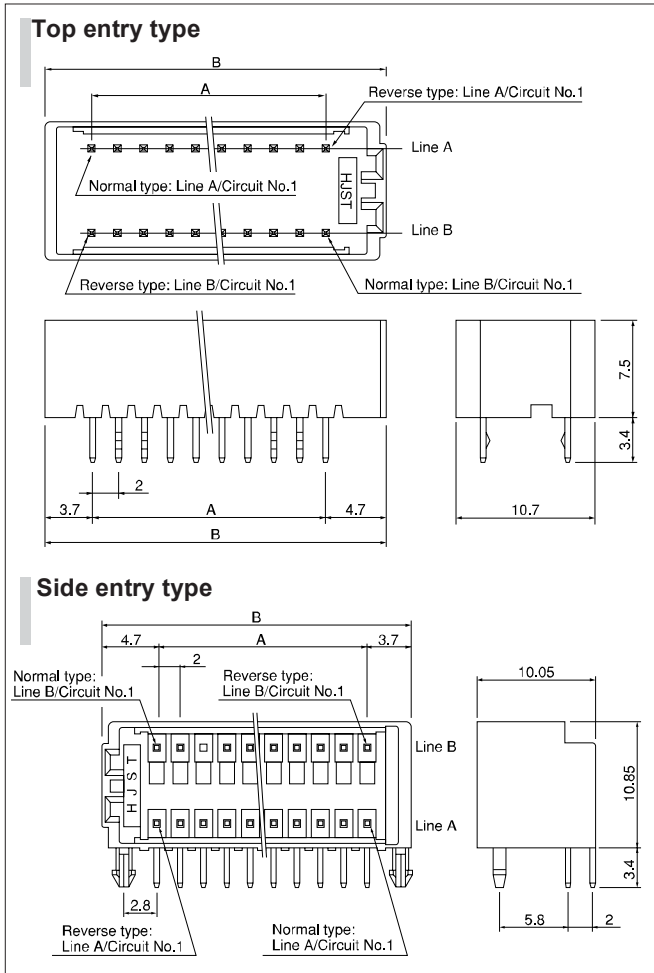
Material and Finish

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)

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

# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

## Double-row shrouded Header



| Circuits | Model No.      |                 |                |                 | Dimensions (mm) |      | Q'ty/box       |                 |
|----------|----------------|-----------------|----------------|-----------------|-----------------|------|----------------|-----------------|
|          | Top entry type | Side entry type | Top entry type | Side entry type | A               | B    | Top entry type | Side entry type |
| 16       | B16B-KRWHK     | S16B-KRWHS      | B16B-KRWHK-C   | S16B-KRWHS-C    | 14.0            | 22.4 | 320            | 280             |
| 18       | B18B-KRWHK     | S18B-KRWHS      | B18B-KRWHK-C   | S18B-KRWHS-C    | 16.0            | 24.4 | 288            | 252             |
| 20       | B20B-KRWHK     | S20B-KRWHS      | B20B-KRWHK-C   | S20B-KRWHS-C    | 18.0            | 26.4 | 256            | 224             |
| 22       | B22B-KRWHK     | S22B-KRWHS      | B22B-KRWHK-C   | S22B-KRWHS-C    | 20.0            | 28.4 | 224            | 196             |
| 24       | B24B-KRWHK     | —               | B24B-KRWHK-C   | —               | 22.0            | 30.4 | 224            | 196             |
| 26       | B26B-KRWHK     | S26B-KRWHS      | B26B-KRWHK-C   | S26B-KRWHS-C    | 24.0            | 32.4 | 192            | 168             |
| 28       | B28B-KRWHK     | S28B-KRWHS      | B28B-KRWHK-C   | S28B-KRWHS-C    | 26.0            | 34.4 | 192            | 168             |
| 30       | B30B-KRWHK     | S30B-KRWHS      | B30B-KRWHK-C   | S30B-KRWHS-C    | 28.0            | 36.4 | 192            | 168             |
| 32       | B32B-KRWHK     | S32B-KRWHS      | B32B-KRWHK-C   | S32B-KRWHS-C    | 30.0            | 38.4 | 160            | 140             |

### Material and Finish

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

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

Note: 1. Top entry type headers with bosses or without clinched tails are also available.

2. The products listed above are supplied packed in tray.

<For reference> As the color identification,

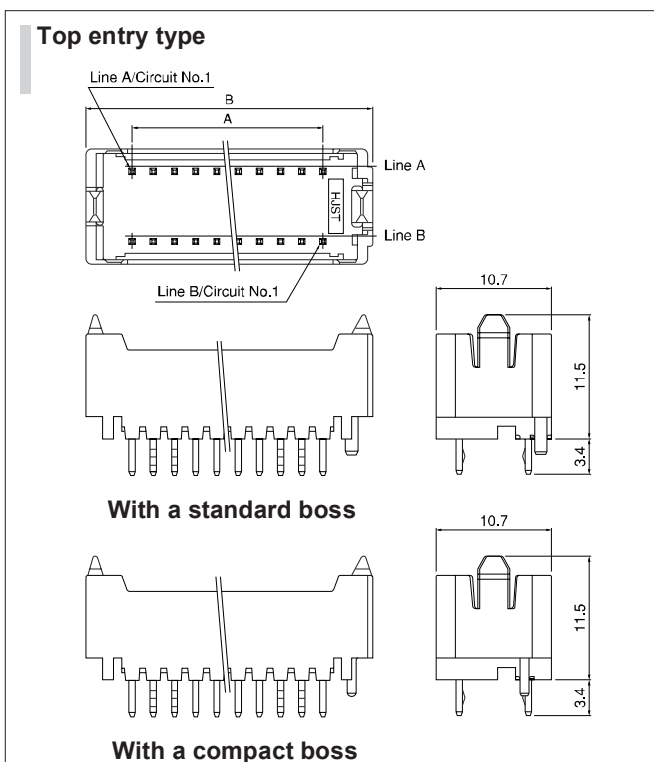
the following alphabet shall be put in the underlined part.

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

ex. **B10B-KRWHK-( )**

M...green H...gray N...brown

## Double-row shrouded Header (with locks)



| Circuits | Model No.      |                      |                     | Dimensions (mm) |      | Q'ty/box |
|----------|----------------|----------------------|---------------------|-----------------|------|----------|
|          | Top entry type |                      |                     | A               | B    |          |
|          | Without bosses | With a standard boss | With a compact boss |                 |      |          |
| 10       | B10B-KRWHK-F1  | B10B-KRWHK-F1-1      | B10B-KRWHK-F1-1D    | 8.0             | 17.0 | 364      |
| 12       | B12B-KRWHK-F1  | B12B-KRWHK-F1-1      | B12B-KRWHK-F1-1D    | 10.0            | 19.0 | 308      |
| 14       | B14B-KRWHK-F1  | B14B-KRWHK-F1-1      | B14B-KRWHK-F1-1D    | 12.0            | 21.0 | 280      |
| 16       | B16B-KRWHK-F1  | B16B-KRWHK-F1-1      | B16B-KRWHK-F1-1D    | 14.0            | 23.0 | 252      |
| 18       | B18B-KRWHK-F1  | B18B-KRWHK-F1-1      | B18B-KRWHK-F1-1D    | 16.0            | 25.0 | 252      |
| 20       | B20B-KRWHK-F1  | B20B-KRWHK-F1-1      | B20B-KRWHK-F1-1D    | 18.0            | 27.0 | 224      |
| 22       | B22B-KRWHK-F1  | B22B-KRWHK-F1-1      | B22B-KRWHK-F1-1D    | 20.0            | 29.0 | 196      |
| 24       | B24B-KRWHK-F1  | B24B-KRWHK-F1-1      | B24B-KRWHK-F1-1D    | 22.0            | 31.0 | 196      |
| 26       | B26B-KRWHK-F1  | B26B-KRWHK-F1-1      | B26B-KRWHK-F1-1D    | 24.0            | 33.0 | 168      |
| 28       | B28B-KRWHK-F1  | B28B-KRWHK-F1-1      | B28B-KRWHK-F1-1D    | 26.0            | 35.0 | 168      |
| 30       | B30B-KRWHK-F1  | B30B-KRWHK-F1-1      | B30B-KRWHK-F1-1D    | 28.0            | 37.0 | 168      |
| 32       | B32B-KRWHK-F1  | B32B-KRWHK-F1-1      | B32B-KRWHK-F1-1D    | 30.0            | 39.0 | 140      |

### Material and Finish

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

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

Note: 1. The products listed above are supplied packed in tray.

2. Not UL/CSA/TÜV approved.

3. The applicable holder is "KRWHK-( ) ( )-( )-1" only.

<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.

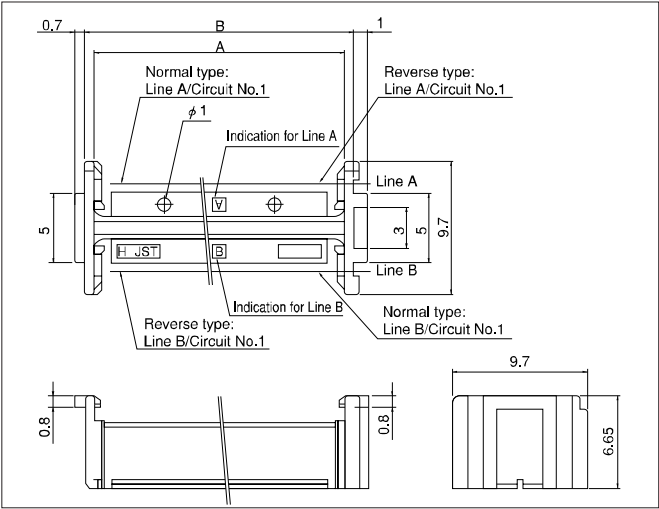
ex. **B10B-KRWHK-F1-( )**

H...gray Y...yellow R...red N...brown

M...green K...black

KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

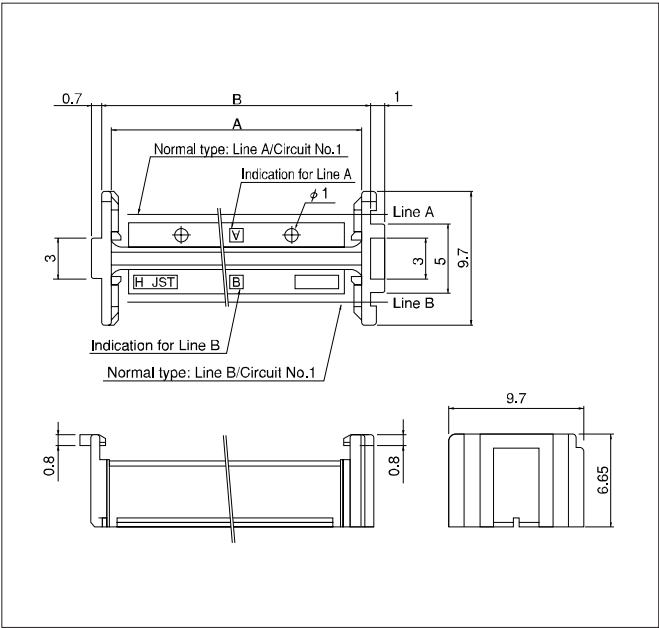
KRW connector Holder



| Circuits             | Model No.   |              | Dimensions (imm) |      |
|----------------------|-------------|--------------|------------------|------|
|                      | Normal type | Reverse type | A                | B    |
| 10                   | KRWH-10-H   | KRWH-10C-H   | 12.0             | 13.4 |
| 12                   | KRWH-12-H   | KRWH-12C-H   | 14.0             | 15.4 |
| 14                   | KRWH-14-H   | KRWH-14C-H   | 16.0             | 17.4 |
| 16                   | KRWH-16-H   | KRWH-16C-H   | 18.0             | 19.4 |
| 18                   | KRWH-18-H   | KRWH-18C-H   | 20.0             | 21.4 |
| 20                   | KRWH-20-H   | KRWH-20C-H   | 22.0             | 23.4 |
| 22                   | KRWH-22-H   | KRWH-22C-H   | 24.0             | 25.4 |
| 24                   | KRWH-24-H   | KRWH-24C-H   | 26.0             | 27.4 |
| 26                   | KRWH-26-H   | KRWH-26C-H   | 28.0             | 29.4 |
| 28                   | KRWH-28-H   | KRWH-28C-H   | 30.0             | 31.4 |
| 30                   | KRWH-30-H   | KRWH-30C-H   | 32.0             | 33.4 |
| 32                   | KRWH-32-H   | KRWH-32C-H   | 34.0             | 35.4 |
| Material             |             |              |                  |      |
| PA 66, UL94V-0, gray |             |              |                  |      |

RoHS compliance

KRW connector Holder (for header with locks)



| Circuits             | Model No.   | Dimensions (mm) |      | Q'ty/box |
|----------------------|-------------|-----------------|------|----------|
|                      |             | A               | B    |          |
| 10                   | KRWH-10-H-1 | 12.0            | 13.4 | 1,000    |
| 12                   | KRWH-12-H-1 | 14.0            | 15.4 | 1,000    |
| 14                   | KRWH-14-H-1 | 16.0            | 17.4 | 1,000    |
| 16                   | KRWH-16-H-1 | 18.0            | 19.4 | 1,000    |
| 18                   | KRWH-18-H-1 | 20.0            | 21.4 | 1,000    |
| 20                   | KRWH-20-H-1 | 22.0            | 23.4 | 1,000    |
| 22                   | KRWH-22-H-1 | 24.0            | 25.4 | 1,000    |
| 24                   | KRWH-24-H-1 | 26.0            | 27.4 | 1,000    |
| 26                   | KRWH-26-H-1 | 28.0            | 29.4 | 1,000    |
| 28                   | KRWH-28-H-1 | 30.0            | 31.4 | 1,000    |
| 30                   | KRWH-30-H-1 | 32.0            | 33.4 | 1,000    |
| 32                   | KRWH-32-H-1 | 34.0            | 35.4 | 1,000    |
| Material             |             |                 |      |          |
| PA 66, UL94V-0, gray |             |                 |      |          |

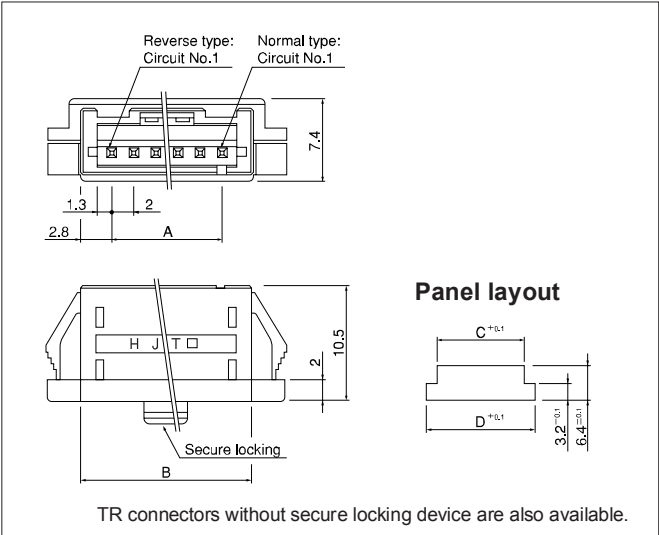
RoHS compliance

Note:1. Not UL/CSA/TÜV approved.  
2. The applicable header is "B( )B-KRW( )K-F1-( )" only.

<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. KRWH-10-H-1  
H...gray Y...yellow R...red N...brown K...black S...natural

TR connector (Unit for wire-to-wire connection)



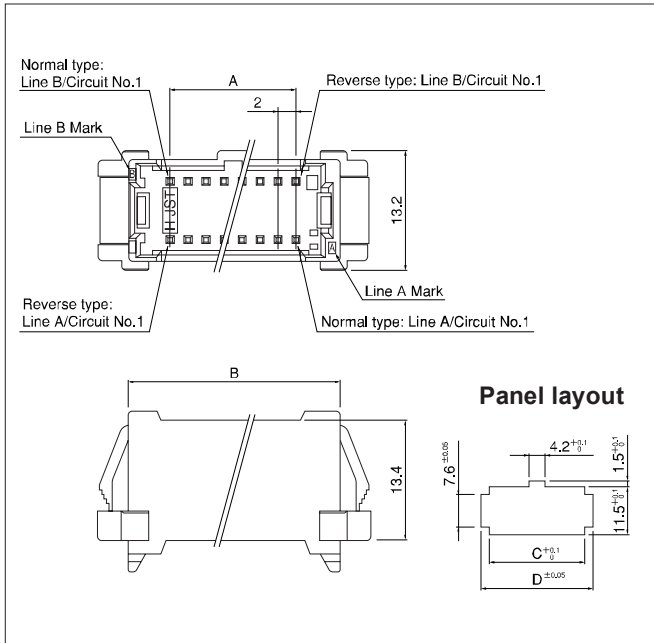
| Circuits   | Model No.    |               | Dimensions (mm) |      |      |      | Q'ty/box |
|--|--------------|---------------|-----------------|------|------|------|----------|
|  | Normal type  | Reverse type  | A               | B    | C    | D    |          |
| 2  | BU02P-TR-P-H | BU02P-TR-PC-H | 2.0             | 7.6  | 7.9  | 11.6 | 500      |
| 3  | BU03P-TR-P-H | BU03P-TR-PC-H | 4.0             | 9.6  | 9.9  | 13.6 | 500      |
| 4  | BU04P-TR-P-H | BU04P-TR-PC-H | 6.0             | 11.6 | 11.9 | 15.6 | 500      |
| 5  | BU05P-TR-P-H | BU05P-TR-PC-H | 8.0             | 13.6 | 13.9 | 17.6 | 250      |
| 6  | BU06P-TR-P-H | BU06P-TR-PC-H | 10.0            | 15.6 | 15.9 | 19.6 | 250      |
| 7  | BU07P-TR-P-H | BU07P-TR-PC-H | 12.0            | 17.6 | 18.0 | 21.6 | 200      |
| 8  | BU08P-TR-P-H | BU08P-TR-PC-H | 14.0            | 19.6 | 20.0 | 23.6 | 250      |
| 9  | BU09P-TR-P-H | BU09P-TR-PC-H | 16.0            | 21.6 | 22.0 | 25.6 | 250      |
| 10   | BU10P-TR-P-H | BU10P-TR-PC-H | 18.0            | 23.6 | 24.0 | 27.6 | 200      |
| 11   | BU11P-TR-P-H | BU11P-TR-PC-H | 20.0            | 25.6 | 26.0 | 29.6 | 200      |
| 12   | BU12P-TR-P-H | BU12P-TR-PC-H | 22.0            | 27.6 | 28.0 | 31.6 | 200      |
| 13   | BU13P-TR-P-H | BU13P-TR-PC-H | 24.0            | 29.6 | 30.0 | 33.6 | 150      |
| 14   | BU14P-TR-P-H | BU14P-TR-PC-H | 26.0            | 31.6 | 32.0 | 35.6 | 150      |
| 15   | BU15P-TR-P-H | BU15P-TR-PC-H | 28.0            | 33.6 | 34.0 | 37.6 | 150      |
| 16   | BU16P-TR-P-H | BU16P-TR-PC-H | 30.0            | 35.6 | 36.0 | 39.6 | 150      |
| Material and Finish  |              |               |                 |      |      |      |          |
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)<br>Housing: PA 66, UL94V-0, gray |              |               |                 |      |      |      |          |

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



# KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

## TRW connector (Unit for wire-to-wire connection)



| Circuits | Model No.     |                | Dimensions (mm) |      |      |      | Q'ty/<br>box |
|----------|---------------|----------------|-----------------|------|------|------|--------------|
|          | Normal type   | Reverse type   | A               | B    | C    | D    |              |
| 16       | BU16P-TRW-P-H | BU16P-TRW-PC-H | 14.0            | 23.5 | 23.9 | 27.5 | 100          |
| 18       | BU18P-TRW-P-H | BU18P-TRW-PC-H | 16.0            | 25.5 | 25.9 | 29.5 | 100          |
| 20       | BU20P-TRW-P-H | BU20P-TRW-PC-H | 18.0            | 27.5 | 27.9 | 31.5 | 50           |
| 22       | BU22P-TRW-P-H | BU22P-TRW-PC-H | 20.0            | 29.5 | 29.9 | 33.5 | 50           |
| 24       | BU24P-TRW-P-H | BU24P-TRW-PC-H | 22.0            | 31.5 | 31.9 | 35.5 | 50           |
| 26       | BU26P-TRW-P-H | BU26P-TRW-PC-H | 24.0            | 33.5 | 33.9 | 37.5 | 50           |
| 28       | BU28P-TRW-P-H | BU28P-TRW-PC-H | 26.0            | 35.5 | 35.9 | 39.5 | 50           |
| 30       | BU30P-TRW-P-H | BU30P-TRW-PC-H | 28.0            | 37.5 | 37.9 | 41.5 | 50           |
| 32       | BU32P-TRW-P-H | BU32P-TRW-PC-H | 30.0            | 39.5 | 39.9 | 43.5 | 50           |

### Material and Finish

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

**RoHS 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. **BU16P-TRW-P-H**  
H...gray Y...yellow R...red N...brown  
S...natural (white) M...green