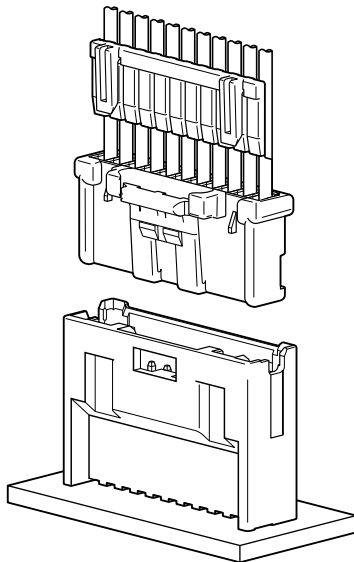


# PNI CONNECTOR 〈High box type〉

2.0 mm pitch/Disconnectable Crimp style connectors



This is a board-to-wire connector with secure locking device that has been designed to 2 mm pitch high box type, with a mounting height of 19.95 mm (including retainer) and 6.65 mm in depth.

Low insertion force type contact is adopted and it provides excellent operability. Retainer is available as usage.

- Header for use specifically with resin coated ("potted") PC board
- Secure locking structure
- Retainer mountable type

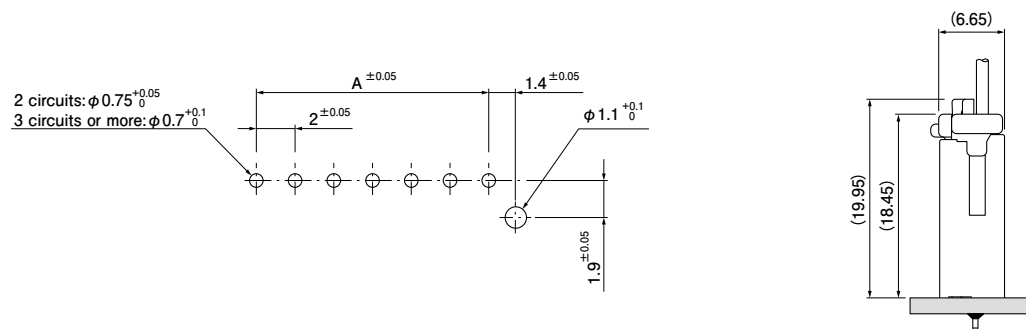
## Specifications

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 100 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: 800 VAC/minute
- Applicable wire: Conductor size/ AWG #28 to #22  
Insulation O.D./ 0.76 to 1.5 mm
- 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 E 60389

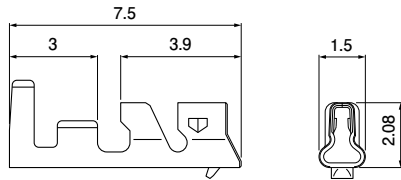
## PC board layout and Assembly layout



Note: 1. The above figure is the figure viewed from the connector mounting side.  
2. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
3. 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.

# PNI CONNECTOR (High box type)

## Contact



| Model No.      | Applicable wire |          | Insulation O.D.<br>(mm) | Q'ty/<br>reel |
|----------------|-----------------|----------|-------------------------|---------------|
|                | mm <sup>2</sup> | AWG #    |                         |               |
| SPND-001T-C0.5 | 0.13 to 0.33    | 26 to 22 | 1.0 to 1.5              | 8,000         |
| SPND-002T-C0.5 | 0.08 to 0.22    | 28 to 24 | 0.76 to 1.5             | 8,000         |

### Material and Finish

Copper alloy, tin-plated (reflow treatment)

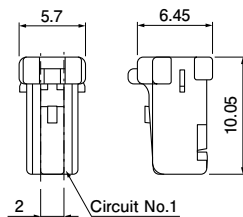
### RoHS2 compliance

| Contact        | Crimping<br>machine | Applicator       |                   |                            |
|----------------|---------------------|------------------|-------------------|----------------------------|
|                |                     | Crimp applicator | Dies              | Crimp applicator with dies |
| SPND-001T-C0.5 | AP-K2N              | MKS-L            | MK/SPND-001-05    | APLMK SPND001-05           |
| SPND-002T-C0.5 |                     |                  | MK/SPAD/ND-002-05 | APLMK SPAD/ND002-05        |

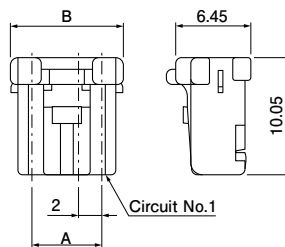
Note: Contact JST for fully automatic crimping applicator.

## Housing

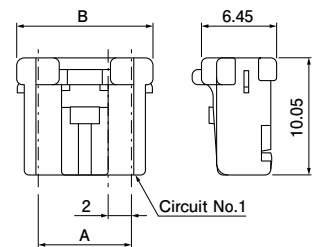
### <2 circuits>



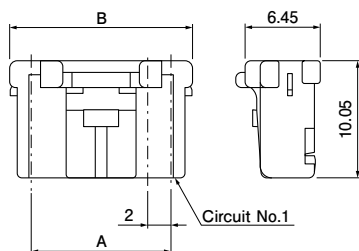
### <3, 4 circuits>



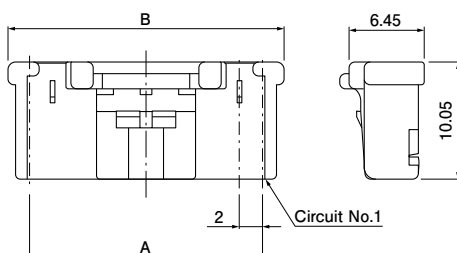
### <5, 6 circuits>



### <7 to 10 circuits>



### <11 to 15 circuits>



| No. of<br>circuits | Model No.   | Dimensions (mm) |      | Q'ty/<br>bag |
|--------------------|-------------|-----------------|------|--------------|
|                    |             | A               | B    |              |
| 2                  | PNIRP-02V-S | —               | 5.7  | 1,000        |
| 3                  | PNIRP-03V-S | 4.0             | 7.7  | 1,000        |
| 4                  | PNIRP-04V-S | 6.0             | 9.7  | 1,000        |
| 5                  | PNIRP-05V-S | 8.0             | 11.7 | 1,000        |
| 6                  | PNIRP-06V-S | 10.0            | 13.7 | 1,000        |
| 7                  | PNIRP-07V-S | 12.0            | 15.7 | 1,000        |
| 8                  | PNIRP-08V-S | 14.0            | 17.7 | 1,000        |
| 9                  | PNIRP-09V-S | 16.0            | 19.7 | 1,000        |
| 10                 | PNIRP-10V-S | 18.0            | 21.7 | 1,000        |
| 11                 | PNIRP-11V-S | 20.0            | 23.7 | 1,000        |
| 12                 | PNIRP-12V-S | 22.0            | 25.7 | 1,000        |
| 13                 | PNIRP-13V-S | 24.0            | 27.7 | 1,000        |
| 14                 | PNIRP-14V-S | 26.0            | 29.7 | 500          |
| 15                 | PNIRP-15V-S | 28.0            | 31.7 | 500          |

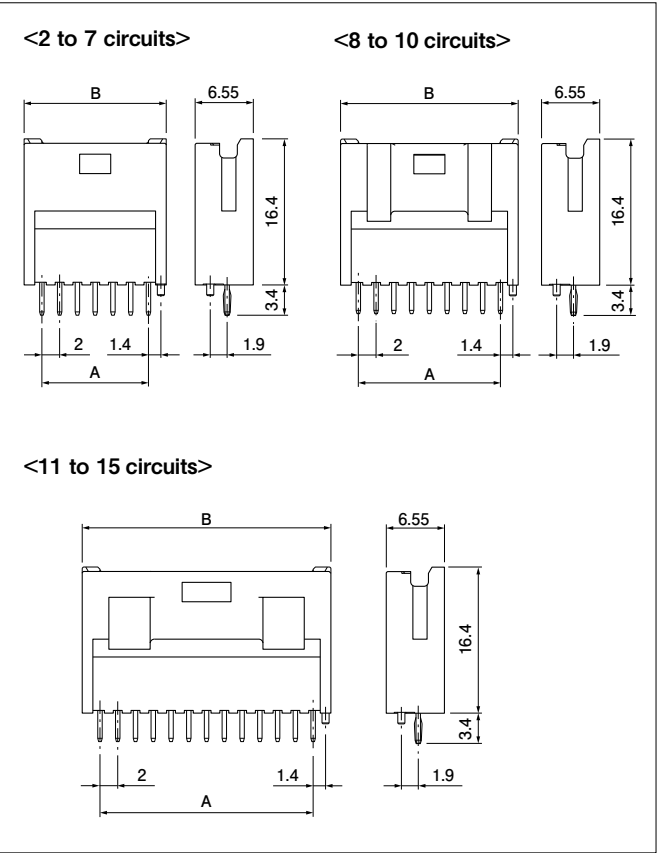
### Material and Finish

Glass-filled PBT, UL94V-0, natural (white)

### RoHS2 compliance

# PNI CONNECTOR (High box type)

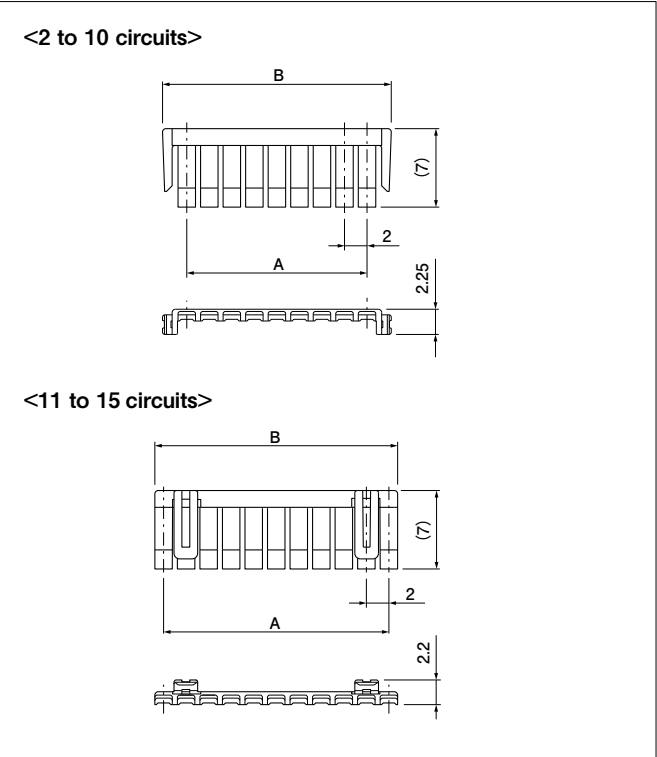
## Header



| No. of circuits | Model No.      | Dimensions (mm) |      | Q'ty/box |
|-----------------|----------------|-----------------|------|----------|
|                 |                | A               | B    |          |
| 2               | BH02B-PNISK-1A | 2.0             | 6.0  | 500      |
| 3               | BH03B-PNISK-1A | 4.0             | 8.0  | 450      |
| 4               | BH04B-PNISK-1A | 6.0             | 10.0 | 350      |
| 5               | BH05B-PNISK-1A | 8.0             | 12.0 | 300      |
| 6               | BH06B-PNISK-1A | 10.0            | 14.0 | 250      |
| 7               | BH07B-PNISK-1A | 12.0            | 16.0 | 200      |
| 8               | BH08B-PNISK-1A | 14.0            | 18.0 | 200      |
| 9               | BH09B-PNISK-1A | 16.0            | 20.0 | 150      |
| 10              | BH10B-PNISK-1A | 18.0            | 22.0 | 150      |
| 11              | BH11B-PNISK-1A | 20.0            | 24.0 | 150      |
| 12              | BH12B-PNISK-1A | 22.0            | 26.0 | 100      |
| 13              | BH13B-PNISK-1A | 24.0            | 28.0 | 100      |
| 14              | BH14B-PNISK-1A | 26.0            | 30.0 | 100      |
| 15              | BH15B-PNISK-1A | 28.0            | 32.0 | 100      |

| Material and Finish                                                   |  |  |  |  |
|-----------------------------------------------------------------------|--|--|--|--|
| Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) |  |  |  |  |
| Wafer: Glass-filled PA 66, UL94V-0, white                             |  |  |  |  |
| RoHS2 compliance This product displays (LF)(SN) on a label.           |  |  |  |  |

## Retainer



| No. of circuits | Model No. | Dimensions (mm) |       | Q'ty/bag |
|-----------------|-----------|-----------------|-------|----------|
|                 |           | A               | B     |          |
| 2               | PNIS-02V  | 2.0             | 6.3   | 1,000    |
| 3               | PNIS-03V  | 4.0             | 8.3   | 1,000    |
| 4               | PNIS-04V  | 6.0             | 10.3  | 1,000    |
| 5               | PNIS-05V  | 8.0             | 12.3  | 1,000    |
| 6               | PNIS-06V  | 10.0            | 14.3  | 1,000    |
| 7               | PNIS-07V  | 12.0            | 16.3  | 1,000    |
| 8               | PNIS-08V  | 14.0            | 18.3  | 1,000    |
| 9               | PNIS-09V  | 16.0            | 20.3  | 1,000    |
| 10              | PNIS-10V  | 18.0            | 22.3  | 1,000    |
| 11              | PNIS-11V  | 20.0            | 21.55 | 1,000    |
| 12              | PNIS-12V  | 22.0            | 23.55 | 1,000    |
| 13              | PNIS-13V  | 24.0            | 25.55 | 1,000    |
| 14              | PNIS-14V  | 26.0            | 27.55 | 1,000    |
| 15              | PNIS-15V  | 28.0            | 29.55 | 1,000    |

| Material and Finish                          |  |  |  |  |
|----------------------------------------------|--|--|--|--|
| Glass-filled PA 66, UL94V-0, natural (ivory) |  |  |  |  |
| RoHS2 compliance                             |  |  |  |  |

# PNI CONNECTOR〈High box type〉

## Model number allocation

### Contact

S PND - 002 T - C 0.5

Form: S··Strip form

Series name

Applicable wire range: 001··AWG #26 to AWG #22  
002··AWG #28 to AWG #24

Surface finish: T··Tin-plated (reflow treatment)

Material: C··Copper alloy

Terminal size

### Housing

PNI RP - 02 V - S

Series name

Part name: Plug (retainer mountable type)

No. of circuits: 2 to 15

Flammability: V··UL94V-0

Color: S··Natural (White)

### Header

BH 02 B - PNI S K - 1 A

Shape of assembled product

No. of circuits: 2 to 15

Part name: Header

Series name

Color: S··White

Indication of clinch: K··Clinched

Shape: 1··With boss

Material: A··Glass-filled Nylon 66

### Retainer

PNI S - 02 V

Series name

Part name: Retainer

No. of circuits: 2 to 15

Flammability: V··UL94V-0