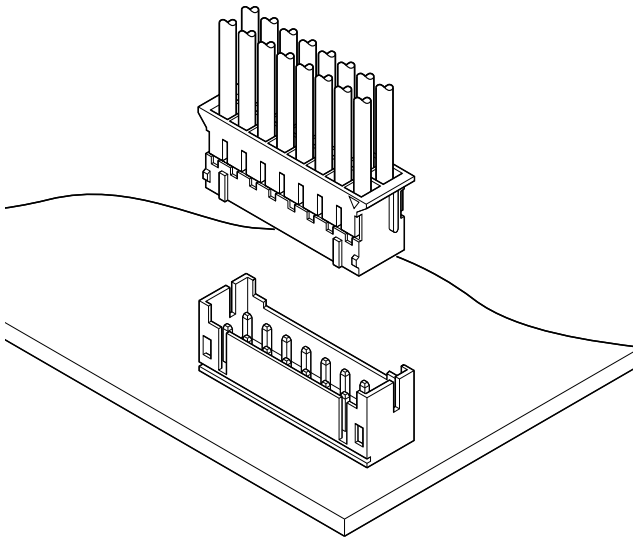




# PHD CONNECTOR

2.0 mm pitch/Disconnectable Crimp style connectors



This is a 2.0 mm pitch, crimp style, dual-row, wire-to-board connector. It is designed to meet the demand for high-density and low-profile connection.

- Compact
- Reliable contacts
- Fully shrouded header

## Specifications

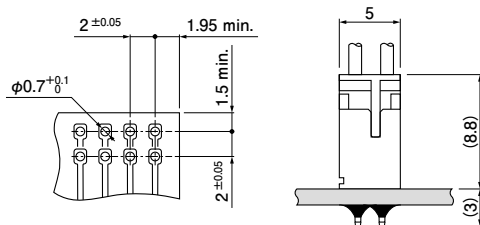
- Current rating: 3 A AC/DC (AWG #22)
  - Voltage rating: 250 V AC/DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 20 mΩ max.
  - Insulation resistance: 1,000 MΩ min.
  - Withstanding voltage: 800 VAC/minute
  - Applicable wire: AWG #28 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

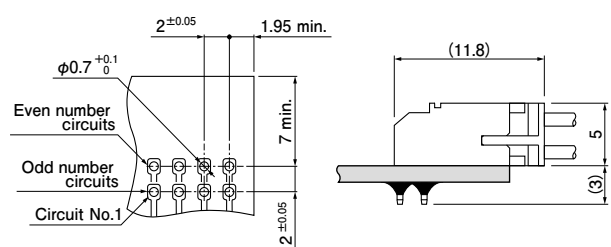
Recognized E60389

## PC board layout and Assembly layout

### Top entry type



### Side entry type

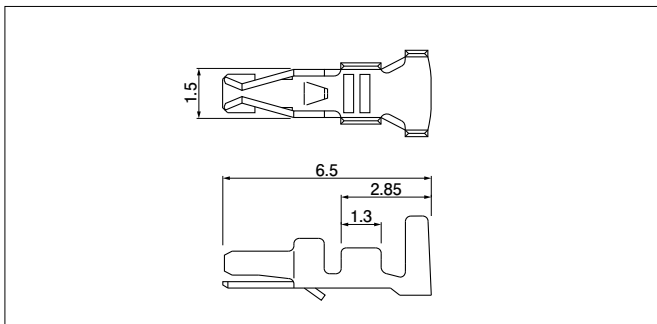


Note: 1. The above figure is the figure viewed from soldering side.

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

3. 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.

## Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm <sup>2</sup>	AWG #		
SPHD-002T-P0.5	0.08~0.21	28~24	0.9~1.5	8,000
SPHD-001T-P0.5	0.13~0.33	26~22	1.0~1.5	

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

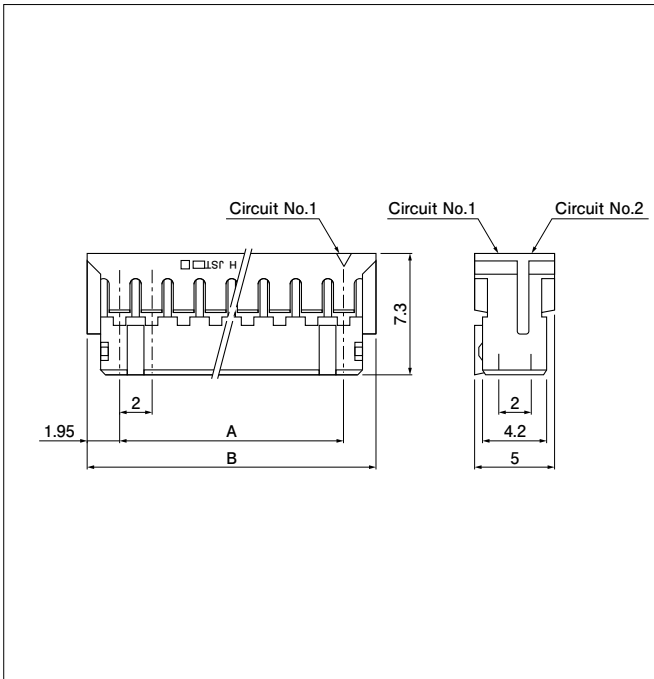
### RoHS2 compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
SPHD-001T-P0.5			MK/SPHD-001-05	APLMK SPHD001-05

Note: Contact JST for fully automatic crimping applicator.

# PHD CONNECTOR

## Housing



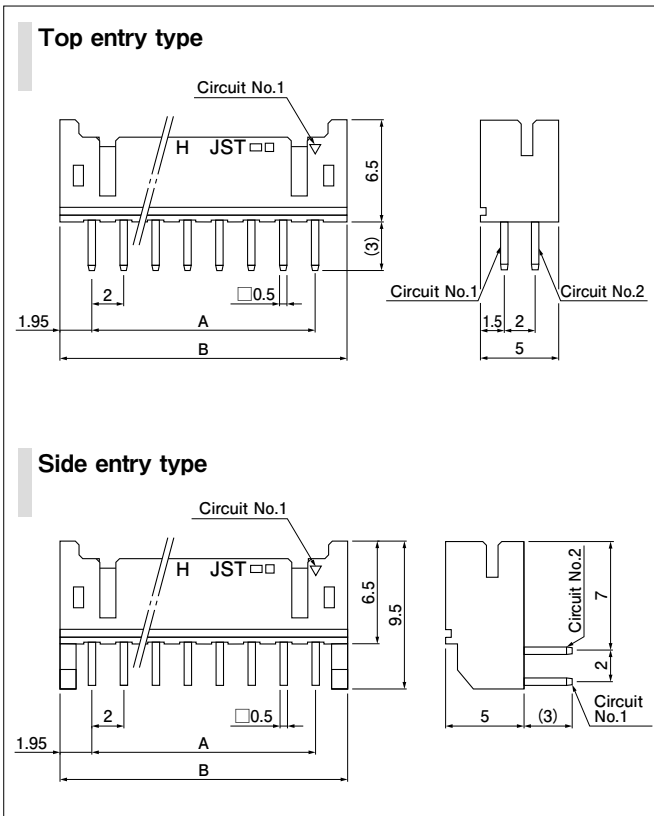
No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
8	PHDR-08VS	6.0	9.9	1,000
10	PHDR-10VS	8.0	11.9	1,000
12	PHDR-12VS	10.0	13.9	1,000
14	PHDR-14VS	12.0	15.9	1,000
16	PHDR-16VS	14.0	17.9	1,000
18	PHDR-18VS	16.0	19.9	1,000
20	PHDR-20VS	18.0	21.9	1,000
22	PHDR-22VS	20.0	23.9	1,000
24	PHDR-24VS	22.0	25.9	1,000
26	PHDR-26VS	24.0	27.9	1,000
28	PHDR-28VS	26.0	29.9	1,000
30	PHDR-30VS	28.0	31.9	1,000
32	PHDR-32VS	30.0	33.9	1,000
34	PHDR-34VS	32.0	35.9	1,000

### Material and Finish

PA 66, UL94V-0, natural (white)

RoHS2 compliance

## Shrouded header



No. of circuits	Model No.				Dimensions (mm)		Q'ty/box	
	Glass-filled nylon		Nylon		A	B	Top entry type	Side entry type
	Top entry type	Side entry type	Top entry type	Side entry type				
8	B8B-PHDSS	S8B-PHDSS	—	—	6.0	9.9	500	500
10	B10B-PHDSS	S10B-PHDSS	B10B-PHDSS-B	S10B-PHDSS-B	8.0	11.9	500	500
12	B12B-PHDSS	S12B-PHDSS	B12B-PHDSS-B	S12B-PHDSS-B	10.0	13.9	500	500
14	B14B-PHDSS	S14B-PHDSS	B14B-PHDSS-B	S14B-PHDSS-B	12.0	15.9	500	250
16	B16B-PHDSS	S16B-PHDSS	B16B-PHDSS-B	S16B-PHDSS-B	14.0	17.9	500	250
18	B18B-PHDSS	S18B-PHDSS	B18B-PHDSS-B	S18B-PHDSS-B	16.0	19.9	500	250
20	B20B-PHDSS	S20B-PHDSS	B20B-PHDSS-B	S20B-PHDSS-B	18.0	21.9	250	250
22	B22B-PHDSS	S22B-PHDSS	B22B-PHDSS-B	S22B-PHDSS-B	20.0	23.9	250	250
24	B24B-PHDSS	S24B-PHDSS	B24B-PHDSS-B	S24B-PHDSS-B	22.0	25.9	250	200
26	B26B-PHDSS	S26B-PHDSS	B26B-PHDSS-B	S26B-PHDSS-B	24.0	27.9	250	200
28	B28B-PHDSS	S28B-PHDSS	B28B-PHDSS-B	S28B-PHDSS-B	26.0	29.9	250	200
30	B30B-PHDSS	S30B-PHDSS	B30B-PHDSS-B	S30B-PHDSS-B	28.0	31.9	250	200
32	B32B-PHDSS	S32B-PHDSS	B32B-PHDSS-B	S32B-PHDSS-B	30.0	33.9	250	200
34	B34B-PHDSS	S34B-PHDSS	B34B-PHDSS-B	S34B-PHDSS-B	32.0	35.9	250	200

### Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

PA 66, UL94V-0, natural (white)

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

# PHD CONNECTOR

## Model number allocation

### Contact

**S PHD - 002 T - P 0.5**

Form: S...Strip form, B...Loose piece

Series name

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

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

Material: P...Phosphor bronze

Terminal size

### Housing

**PHDR - 10 V S**

Series name

Part name: Receptacle

No. of circuits: Even No. of circuits from 8 to 34

Flammability: V...UL94V-0

Color: S...Natural (White), K...Black, Y...Yellow, E...Blue, R...Red

### Header (Nylon product with glass-filled)

**B 10 B - PHD S S**

Shape of assembled product: B...Top entry type  
S...Side entry type

No. of circuits: Even No. of circuits from 8 to 34

Part name: Header

Series name

Color: S...Natural (Ivory)

Indication of clinch: S...Straight pin

### Header (Nylon product)

**B 10 B - PHD S S - B**

Shape of assembled product: B...Top entry type  
S...Side entry type

No. of circuits: Even No. of circuits from 10 to 34

Part name: Header

Series name

Color: S...Natural (Ivory), K...Black, Y...Yellow, E...Blue, R...Red

Indication of clinch: S...Straight pin

Material: B...PA 66