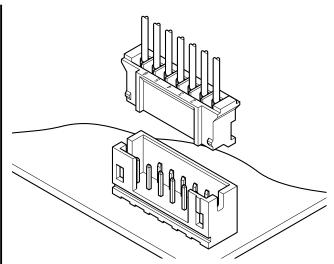




# 2.0 mm pitch/Disconnectable Crimp style connectors



This is a thin, low-profile 2.0 mm pitch connector 8.0 mm in height after mounting and 4.5 mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- Reliable contact
- Fully shrouded header
- Printed circuit board retention mechanism
- Surface mount model (SMT)

# Specifications -

- Current rating: 2 A AC/DC (AWG #24)
- 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 m $\Omega$  max.

After environmental tests/ 20 m $\Omega$  max.

- Insulation resistance: 1,000  $M\Omega$  min.
- Withstanding voltage: 800 VAC/ minute
- Applicable wire: AWG #32 to #24
- Applicable PC board thickness: 0.8 to 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 -

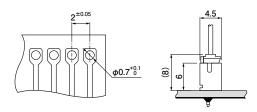
Recognized E60389

△ R75087

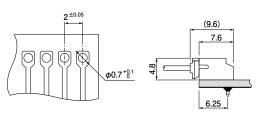
# PC board layout and Assembly layout

#### (Through-hole type)

#### Top entry type



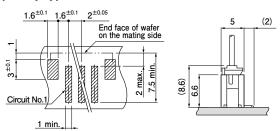
#### Side entry type



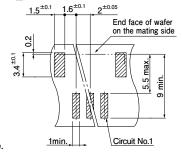
- Note: 1. The above figure is the figure viewed from soldering side.
  - 2. Tolerances are non-cumulative:  $\pm$  0.05 mm for all centers.
  - 3. Hole dimensions differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

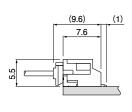
## ⟨SMT type⟩

### SM4 type Top entry type



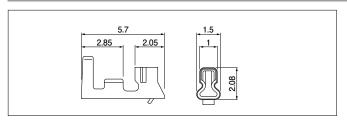
SM4 type Side entry type





- Note: 1. The above figure is the figure viewed from the connector mounting side.
  - 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
  - 3. The dimensions above should serve as a guideline. Contact JST for details.

# Contact



Contact	Crimping	Applicator				
	machine	Crimp applicator	Dies	Crimp applicator with dies		
SPH-002T-P0.5S		MKS-L	MK/SPH-002-05S	APLMK SPH002-05S		
SPH-002T-P0.5L	AP-K2N	WK3-L	MK/SPH-002-05L	APLMK SPH002-05L		
SPH-004T-P0.5S		MKS-L-10	MK/SPH-002-05S	APLMK SPH004-05S		

Note: Contact JST for fully automatic crimping applicator.

Model No.		Q'ty/			
Model No.	mm <sup>2</sup>	AWG #	Insulation O.D. (mm)	reel	
SPH-002T-P0.5S	0.05 to 0.22	30 to 24	0.8 to 1.5	9,000	
SPH-002T-P0.5L	0.08 to 0.22	28 to 24	0.8 to 1.5	8,000	
SPH-004T-P0.5S	0.032 to 0.08	32 to 28	0.5 to 0.9	10,000	

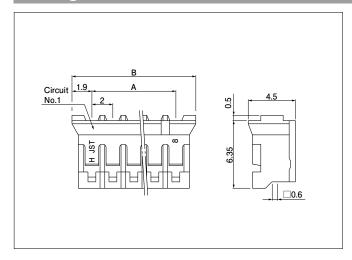
#### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

#### RoHS2 compliance

- Note: 1. Contact JST for gold-plated products.
  - 2. SPH-002T-P0.5L is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.
  - 3. Contact JST for details.

# Housing



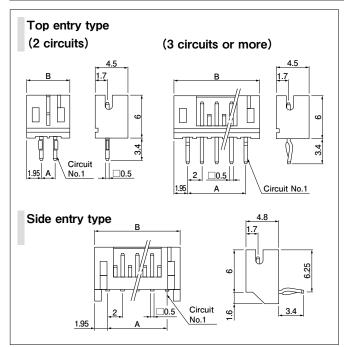
No. of	Madal Na	Dimensi	Q'ty/	
circuits	Model No.	Α	В	bag
2	PHR-2	2.0	5.8	2,000
3	PHR-3	4.0	7.8	2,000
4	PHR-4	6.0	9.8	2,000
5	PHR-5	8.0	11.8	2,000
6	PHR-6	10.0	13.8	2,000
7	PHR-7	12.0	15.8	2,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000
14	PHR-14	26.0	29.8	1,000
15	PHR-15	28.0	31.8	1,000
16	PHR-16	30.0	33.8	1,000

Material and Finish

PA 66, UL94V-0, natural (white)

RoHS2 compliance

# Header



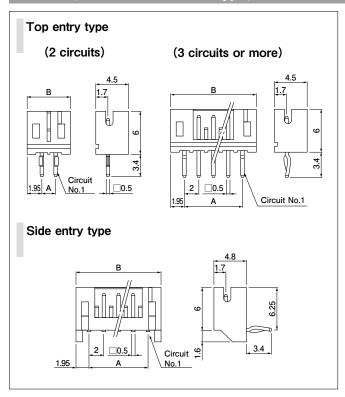
No. of	Model No.		Dimensions (mm)		Q'ty/box	
circuits	Top entry type	Side entry type	Α	В	Top entry type	Side entry type
2	B2B-PH-K-S	S2B-PH-K-S	2.0	5.9	1,000	1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0	7.9	1,000	1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0	9.9	1,000	500
5	B5B-PH-K-S	S5B-PH-K-S	8.0	11.9	1,000	500
6	B6B-PH-K-S	S6B-PH-K-S	10.0	13.9	1,000	500
7	B7B-PH-K-S	S7B-PH-K-S	12.0	15.9	500	500
8	B8B-PH-K-S	S8B-PH-K-S	14.0	17.9	500	250
9	B9B-PH-K-S	S9B-PH-K-S	16.0	19.9	500	250
10	B10B-PH-K-S	S10B-PH-K-S	18.0	21.9	500	250
11	B11B-PH-K-S	S11B-PH-K-S	20.0	23.9	500	250
12	B12B-PH-K-S	S12B-PH-K-S	22.0	25.9	400	250
13	B13B-PH-K-S	S13B-PH-K-S	24.0	27.9	250	250
14	B14B-PH-K-S	S14B-PH-K-S	26.0	29.9	250	250
15	B15B-PH-K-S	S15B-PH-K-S	28.0	31.9	250	200
16	B16B-PH-K-S	S16B-PH-K-S	30.0	33.9	250	200

## 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.

# Header (Low insertion force type)



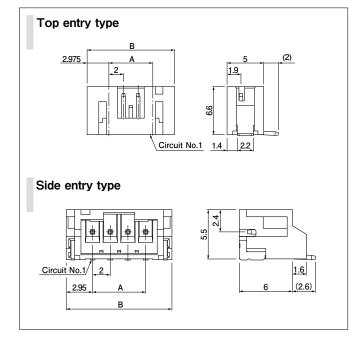
No. of	Model No.		Dimensions (mm)		Q'ty/box	
circuits	Top entry type	Side entry type	Α	В	Top entry type	Side entry type
2	B2B-PH-KL	S2B-PH-KL	2.0	5.9	1,000	1,000
3	B3B-PH-KL	S3B-PH-KL	4.0	7.9	1,000	1,000
4	B4B-PH-KL	S4B-PH-KL	6.0	9.9	1,000	500
5	B5B-PH-KL	S5B-PH-KL	8.0	11.9	1,000	500
6	B6B-PH-KL	S6B-PH-KL	10.0	13.9	1,000	500
7	B7B-PH-KL	S7B-PH-KL	12.0	15.9	500	500
8	B8B-PH-KL	S8B-PH-KL	14.0	17.9	500	250
9	B9B-PH-KL	S9B-PH-KL	16.0	19.9	500	250
10	B10B-PH-KL	S10B-PH-KL	18.0	21.9	500	250
11	B11B-PH-KL	S11B-PH-KL	20.0	23.9	500	250
12	B12B-PH-KL	S12B-PH-KL	22.0	25.9	400	250
13	B13B-PH-KL	S13B-PH-KL	24.0	27.9	250	250
14	B14B-PH-KL	S14B-PH-KL	26.0	29.9	250	200
15	B15B-PH-KL	S15B-PH-KL	28.0	31.9	250	200
16	B16B-PH-KL	S16B-PH-KL	30.0	33.9	250	200

#### Material and Finish

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

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

# Header (SMT type)



No. of circuits	Mode	Dimensions (mm)			Ol. (	
	Tan antri tima	Side entry type	Α	В		Q'ty/ reel
	Top entry type			Top entry type	Side entry type	1001
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

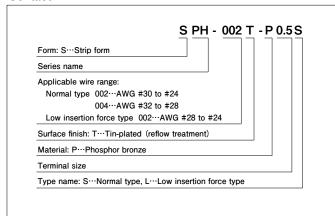
## Material and Finish

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

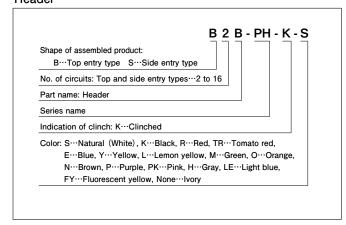
RoHS2 compliance This product displays (LF)(SN) on a label. Note: Contact JST for the top entry type headers with suction cap.

# Model number allocation

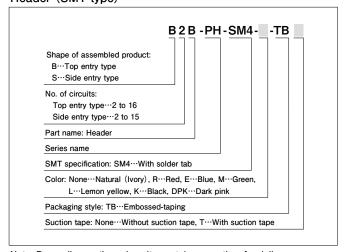
#### Contact



## Header

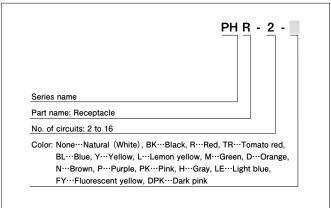


## Header (SMT type)



Note: Depending on the colors, it may take some time for delivery.

## Housing



## Header (Low insertion force type)

