

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)

PC board layout and Assembly layout

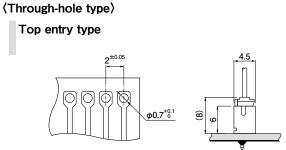
Specifications -

- 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 mΩ max. After environmental tests/ 20 m Ω max.
- Insulation resistance: 1,000 M Ω 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.

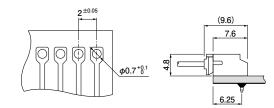
Standards -

N° Recognized E60389 A R75087





Side entry type



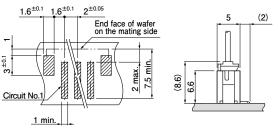
Note: 1. The above figure is the figure viewed from soldering side.

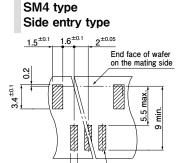
2. Tolerances are non-cumulative: \pm 0.05 mm for all centers.

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)

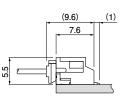
SM4 type Top entry type





1min.

Circuit No.1

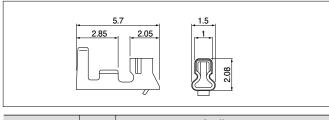


Note: 1. The above figure is the figure viewed from the connector mounting side.

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

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

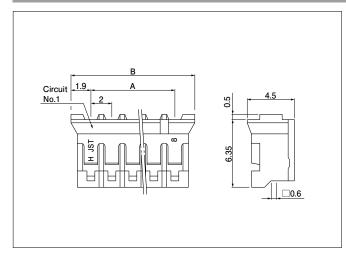
Contact



Contact	Crimping		Applicator	
Contact	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	WIK3-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.

Housing



Model No	mm ²	AWG #	Insulation O.D. (mm)	Q'ty/ reel			
3F11-0021-F0.33	0.05 to 0.22	30 to 24	0.8 to 1.5	8.000			
SPH-002T-P0.5L	0.08 to 0.22	28 to 24	0.8 to 1.5	0,000			
SPH-004T-P0.5S 0	0.032 to 0.08	32 to 28	0.5 to 0.9	10,000			

Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

Note: 1. Contact JST for gold-plated products.

 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.

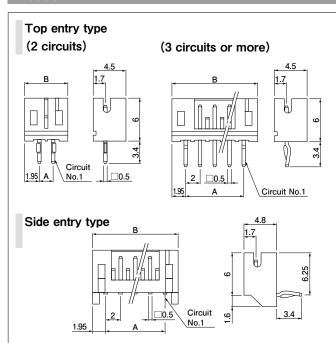
No. of	Madel Ne	Dimensio	Q'ty/		
circuits	Model No.	A	В	bag	
2	PHR-2	2.0	5.8	2,000	
3	PHR-3	4.0	7.8	2,000	
4	PHR-4	6.0	9.8	2,000	
5	PHR-5	8.0	11.8	2,000	
6	PHR-6	10.0	13.8	2,000	
7	PHR-7	12.0	15.8	2,000	
8	PHR-8	14.0	17.8	1,000	
9	PHR-9	16.0	19.8	1,000	
10	PHR-10	18.0	21.8	1,000	
11	PHR-11	20.0	23.8	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

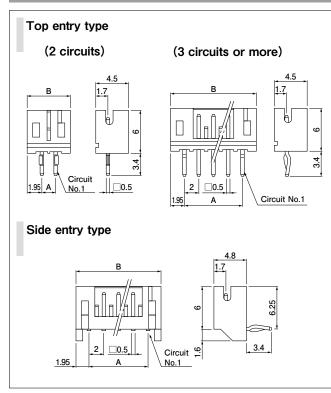
Header



No. of	Model No.		Dimensions (mm)		Q'ty/box	
circuits	Top entry type	Side entry type	A	В	Top entry type	Side entry typ
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 Finis	sh			
		er-undercoated, tin-pla 94V-0, natural (white)	ted (reflo	w treatm	ent)	

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

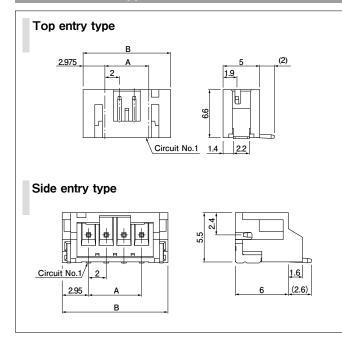
Header (Low insertion force type)



No. of	Model No.		Dimensio	ns (mm)	Q'ty/box		
circuits Top entry type		Side entry type	Α	В	Top entry type	Side entry typ	
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.

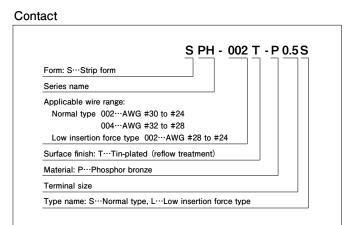
Header (SMT type)



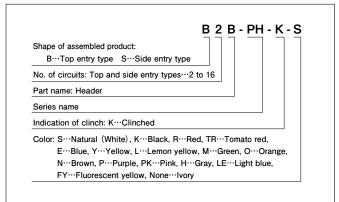
	Mod	Dimensions (mm)				
No. of circuits	Top entry type	Side entry type	Α	В		Q'ty/ reel
				Top entry type	Side entry type	
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	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, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

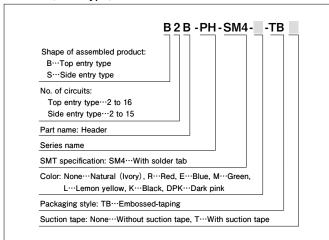
Model number allocation



Header

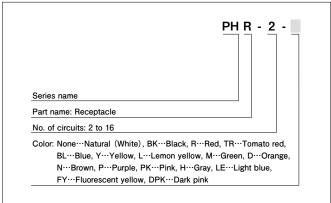


Header (SMT type)



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

Housing



Header (Low insertion force type)

