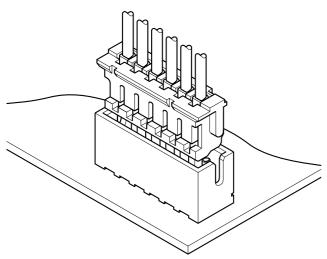




### 1.5mm pitch/Disconnectable Crimp style connectors



The ZH connector is very small with a mounting height of 5.6mm and a thickness of only 3.5mm. Contact retention lances on the housing make insertion easier, while the dimple at the center of the contact ensures reliable contact with the post.

- · Compact, low profile design
- Housing lances
- Reliable contact construction
- Distortion resistant construction
- Compatible with the ZR insulation displacement connectors

### Specifications -

• Current rating: 1.0A AC, DC (AWG #26)

Voltage rating: 50V AC, DC
Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/20m  $\Omega$  max.

After environmental testing/30m  $\Omega$  max.

• Insulation resistance: 500M  $\Omega$  min. • Withstanding voltage: 500V AC/minute

• Applicable wire: AWG #32 to #26

· Applicable PC board thickness: 0.6 to 1.2mm,1.6mm

\* RoHS compliant products are published.

\* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

\* Contact JST for details.

### Standards -

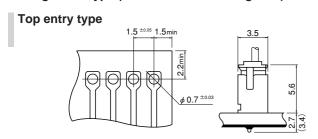
Recognized E60389

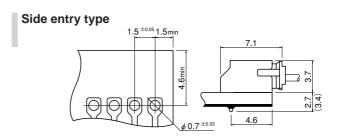
⊕ Certified LR20812

△ R9351092

### PC board layout and Assembly layout

### ⟨Through-hole type (viewed from soldering side) ⟩

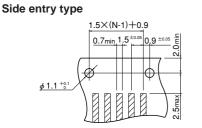




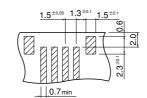
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimension differ according to the kind 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.

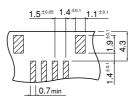
### (SMT type (viewed from component side) )



SM4 type Top entry type



Side entry type

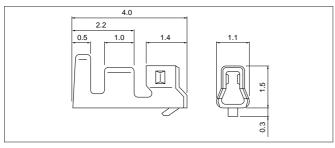


Note: 1. N...Number of circuits

SM2 type

- 2. Tolerances are non-cumulative: ±0.05mm for all centers.
- 3. The dimensions above should serve as a guideline. Contact JST for details.

### Contact



	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
0711 0007 00 5		MKS-L	MK/SZH-002-05	APLMK SZH002-05	
SZH-002T-P0.5	AP-K2N				

Note: \*Strip-crimp applicator.

Model No		Q'ty /		
Model No.	mm²	AWG#	Insulation O.D. (mm)	reel
SZH-002T-P0.5	0.08 ~0.13	28~26	0.8~1.1	13,000
SZH-003T-P0.5	0.032~0.08	32~28	0.5~0.9	16,000

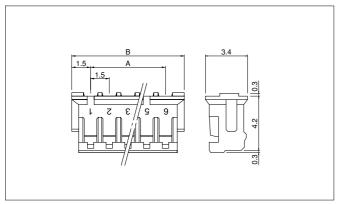
#### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

#### RoHS compliance

	Crimping		Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies		
0711 0007 00 5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05		
SZH-003T-P0.5		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05		

### Housing



<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.

ZHR-2-00

(blank)...natural (white)

K...black R...red E...blue M...green

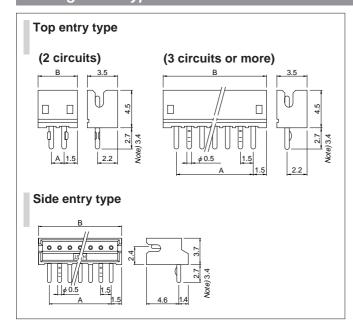
Circuits	Model No.	Dimensi	Q'ty /	
Circuits	Model No.	Α	В	bag
2	ZHR-2	1.5	4.5	1,000
3	ZHR-3	3.0	6.0	1,000
4	ZHR-4	4.5	7.5	1,000
5	ZHR-5	6.0	9.0	1,000
6	ZHR-6	7.5	10.5	1,000
6	ZHR-6(3.0)	15.0	18.0	1,000
7	ZHR-7	9.0	12.0	1,000
8	ZHR-8	10.5	13.5	1,000
9	ZHR-9	12.0	15.0	1,000
10	ZHR-10	13.5	16.5	1,000
11	ZHR-11	15.0	18.0	1,000
12	ZHR-12	16.5	19.5	1,000
13	ZHR-13	18.0	21.0	1,000

PA 66, UL94V-0, natural (white)

### RoHS compliance

Note: 1. ZHR-6(3.0) is 6 circuits 3.0mm pitch plugged up. As for this housing, only circuit No.1 is marked. 2. ZHR-6(3.0) is not UL/CSA/TÜV approved.

### Through-hole type shrouded header



		Model No.					Q'ty / box		
Circuits	Top entry type	Side entry type	Note) Top entry type	Note) Side entry type	Α	В	Top entry type	Side entry type	Side entry type-3.4
2	B2B-ZR	S2B-ZR	B2B-ZR-3.4	S2B-ZR-3.4	1.5	4.5	2,000	2,000	2,000
3	B3B-ZR	S3B-ZR	B3B-ZR-3.4	S3B-ZR-3.4	3.0	6.0	2,000	2,000	1,000
4	B4B-ZR	S4B-ZR	B4B-ZR-3.4	S4B-ZR-3.4	4.5	7.5	2,000	2,000	2,000
5	B5B-ZR	S5B-ZR	B5B-ZR-3.4	S5B-ZR-3.4	6.0	9.0	2,000	1,000	1,000
6	B6B-ZR	S6B-ZR	B6B-ZR-3.4	S6B-ZR-3.4	7.5	10.5	2,000	1,000	1,000
7	B7B-ZR	S7B-ZR	B7B-ZR-3.4	S7B-ZR-3.4	9.0	12.0	1,000	1,000	1,000
8	B8B-ZR	S8B-ZR	B8B-ZR-3.4	S8B-ZR-3.4	10.5	13.5	1,000	1,000	1,000
9	B9B-ZR	S9B-ZR	B9B-ZR-3.4	S9B-ZR-3.4	12.0	15.0	1,000	1,000	1,000
10	B10B-ZR	S10B-ZR	B10B-ZR-3.4	S10B-ZR-3.4	13.5	16.5	1,000	1,000	1,000
11	B11B-ZR	S11B-ZR	B11B-ZR-3.4	S11B-ZR-3.4	15.0	18.0	1,000	500	500
12	B12B-ZR	S12B-ZR	B12B-ZR-3.4	S12B-ZR-3.4	16.5	19.5	1,000	500	500
13	B13B-ZR	S13B-ZR	B13B-ZR-3.4	S13B-ZR-3.4	18.0	21.0	500	500	500

#### Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

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

Note: Headers with 3.4mm long solder tails, suited for the 1.6mm thick PC board.

As the color identification,

the following alphabet shall be put in the underlined part.

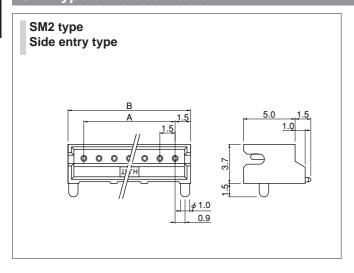
For availability, delivery and minimum order quantity, contact JST.

ex. B2B-ZR-3.4-00

(blank)...natural (ivory)

K...black R...red E...blue M...green

### SMT type shrouded header



## 

#### SM2 type

Circuits	Model No.	Dimensi	Q'ty /	
	Side entry type	Α	В	reel
2	S2B-ZR-SM2-TF	1.5	4.5	1,000
3	S3B-ZR-SM2-TF	3.0	6.0	1,000
4	S4B-ZR-SM2-TF	4.5	7.5	1,000
5	S5B-ZR-SM2-TF	6.0	9.0	1,000
6	S6B-ZR-SM2-TF	7.5	10.5	1,000
7	S7B-ZR-SM2-TF	9.0	12.0	1,000
8	S8B-ZR-SM2-TF	10.5	13.5	1,000
9	S9B-ZR-SM2-TF	12.0	15.0	1,000
10	S10B-ZR-SM2-TF	13.5	16.5	1,000
11	S11B-ZR-SM2-TF	15.0	18.0	1,000
12	S12B-ZR-SM2-TF	16.5	19.5	1,000
13	S13B-ZR-SM2-TF	18.0	21.0	1,000

#### Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 46, UL94V-0, natural (ivory)

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

### SM4 type

0' '1	Mode	Dimensions (mm)		Q'ty / reel		
Circuits	Top entry type	Side entry type	Α	В	Top entry type	Side entry type
2	B2B-ZR-SM4-TF	S2B-ZR-SM4A-TF	1.5	6.0	1,000	1,000
3	B3B-ZR-SM4-TF	S3B-ZR-SM4A-TF	3.0	7.5	1,000	1,000
4	B4B-ZR-SM4-TF	S4B-ZR-SM4A-TF	4.5	9.0	1,000	1,000
5	B5B-ZR-SM4-TF	S5B-ZR-SM4A-TF	6.0	10.5	1,000	1,000
6	B6B-ZR-SM4-TF	S6B-ZR-SM4A-TF	7.5	12.0	1,000	1,000
7	B7B-ZR-SM4-TF	S7B-ZR-SM4A-TF	9.0	13.5	1,000	1,000
8	B8B-ZR-SM4-TF	S8B-ZR-SM4A-TF	10.5	15.0	1,000	1,000
9	B9B-ZR-SM4-TF	S9B-ZR-SM4A-TF	12.0	16.5	1,000	1,000
10	B10B-ZR-SM4-TF	S10B-ZR-SM4A-TF	13.5	18.0	1,000	1,000
11	B11B-ZR-SM4-TF	S11B-ZR-SM4A-TF	15.0	19.5	1,000	1,000
12	B12B-ZR-SM4-TF	S12B-ZR-SM4A-TF	16.5	21.0	1,000	1,000
13	B13B-ZR-SM4-TF	S13B-ZR-SM4A-TF	18.0	22.5	1,000	1,000

### Material and Finish

Pin: Brass, 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: 1. The products listed above are supplied on embossed-tape.

2. Contact JST for the top entry type headers with suction cap.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

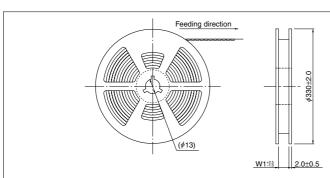
For availability, delivery and minimum order quantity, contact JST.

### ex. S2B-ZR-SM4A-oo-TF

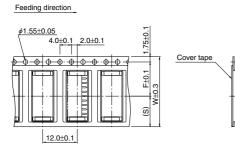
(blank)...natural (ivory)

K...black R...red E...blue M...green

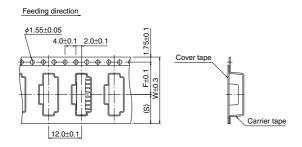
### Taping specifications -

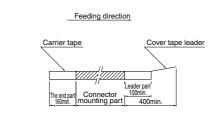


SM2 type (Side entry type) 2 to 11 circuits SM4 type (Side entry type) 2 to 10 circuits

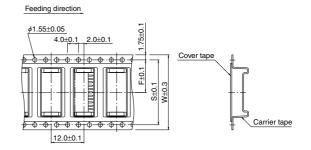


### SM4 type (Top entry type) 2 to 10 circuits

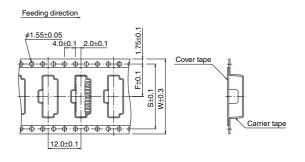




SM2 type (Side entry type) 12 to 13 circuits SM4 type (Side entry type) 11 to 13 circuits



### SM4 type (Top entry type) 11 to 13 circuits



Circuits		Taping dimensions (mm)			Reel dimensions (mm)	Q'ty /	
			F	S	W	W1	reel
	Side	2 to 6	7.5	6.75	16.0	17.5	1,000
SM2 Type	entry	7 to 11	11.5	10.75	24.0	25.5	1,000
Турс	type	12 to 13	14.2	28.4	32.0	33.5	1,000
		2	5.5	4.75	12.0	13.5	1,000
	Top entry type	3 to 5	7.5	6.75	16.0	17.5	1,000
		6 to 10	11.5	10.75	24.0	25.5	1,000
	type	11 to 12	14.2	28.4	32.0	33.5	1,000
SM4 Type		13	20.2	40.4	44.0	45.5	1,000
. , , , ,	Side	2 to 5	7.5	6.75	16.0	17.5	1,000
	entry	6 to 10	11.5	10.75	24.0	25.5	1,000
		11 to 12	14.2	28.4	32.0	33.5	1,000
		13	20.2	40.4	44.0	45.5	1,000

#### Note

Carrier tape

- Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
- 2. Specifications are subject to change without prior notice.

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52271-2869-CUT-TAPE 62674-201121DLF 62684-36210E9ALF 52610-1675 52746-1671-TR250 10051922-2810EHLF 6-520415-9
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