

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.

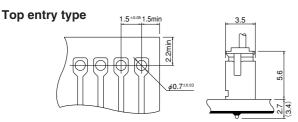
- Compact, low profile design
- Housing lances

JST

- Reliable contact construction
- Distortion resistant construction
- Compatible with the ZR insulation displacement connectors

## PC board layout and Assembly layout

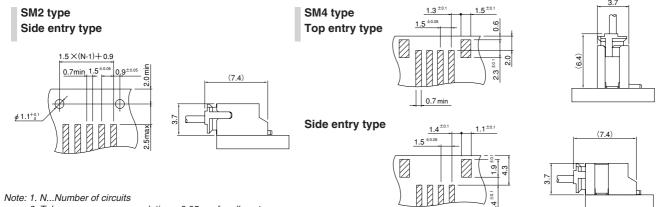
### (Through-hole type (viewed from soldering side) >



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)*



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

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

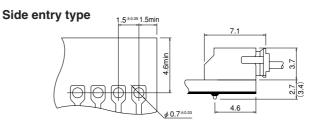
# Specifications —

- 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 Ω max. After environmental testing/30m  $\Omega$  max.
- Insulation resistance: 500M  $\Omega$  min.
- 500V AC/minute Withstanding voltage:
- Applicable wire: AWG #32 to #26
- Applicable PC board thickness: 0.6 to 1.2mm, 1.6mm
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using
- Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

## Standards -

- N Recognized E60389
- GF Certified LR20812

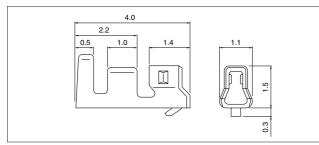
0.7 min





# **ZH CONNECTOR**

#### Contact



<b>.</b>	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			

Model No.		Q'ty /			
woder No.	mm <sup>2</sup>	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

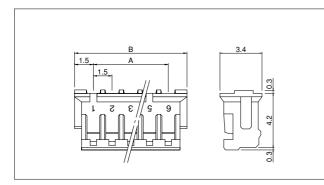
Phosphor bronze, tin-plated (reflow treatment)

**RoHS compliance** 

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

Note: \*Strip-crimp applicator.

### Housing



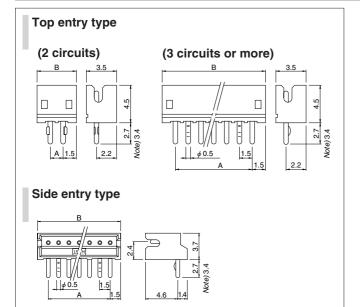
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

#### ex. ZHR-2-00

(blank)...natural (white)

K...black R...red E...blue M...green L...lemon yellow LE...light blue DO...dark orange H...gray

#### Through-hole type shrouded header



Circuits	Model No.	Dimensi	Q'ty /	
Circuits	woder No.	A	В	bág
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

Material 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 approved.

	Model No.			Dimensions (mm)		Q'ty / box			
Circuits	Top entry type	Side entry type	Note) Top entry type	Note) Side entry type	A	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.

<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. **B2B-ZR-3.4-00** 

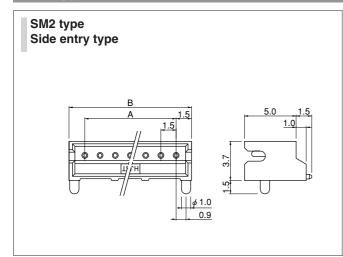
(blank)...natural (ivory)

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



# ZH CONNECTOR

### SMT type shrouded header

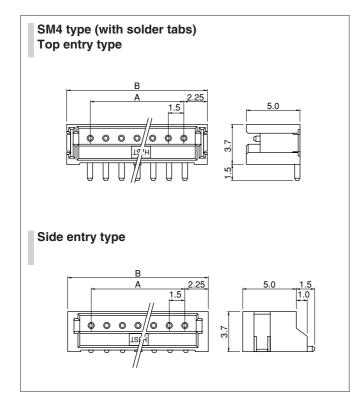


Circuits	Model No.	Dimensi	Q'ty	
	Side entry type	A	В	ree
2	S2B-ZR-SM2-TF	1.5	4.5	1,00
3	S3B-ZR-SM2-TF	3.0	6.0	1,00
4	S4B-ZR-SM2-TF	4.5	7.5	1,00
5	S5B-ZR-SM2-TF	6.0	9.0	1,00
6	S6B-ZR-SM2-TF	7.5	10.5	1,00
7	S7B-ZR-SM2-TF	9.0	12.0	1,00
8	S8B-ZR-SM2-TF	10.5	13.5	1,00
9	S9B-ZR-SM2-TF	12.0	15.0	1,00
10	S10B-ZR-SM2-TF	13.5	16.5	1,00
11	S11B-ZR-SM2-TF	15.0	18.0	1,00
12	S12B-ZR-SM2-TF	16.5	19.5	1,00
13	S13B-ZR-SM2-TF	18.0	21.0	1,00

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' ''	Model No.			ons (mm)	Q'ty / reel	
Circuits	Top entry type	Side entry type	A	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. PA 9T is used for some colored products.

2. The products listed above are supplied on embossed-tape.3. 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-<u>oo</u>-TF

(blank)...natural (ivory)

K...black R...red E...blue M...green L...lemon yellow LE...light blue DO...dark orange DH...dark gray