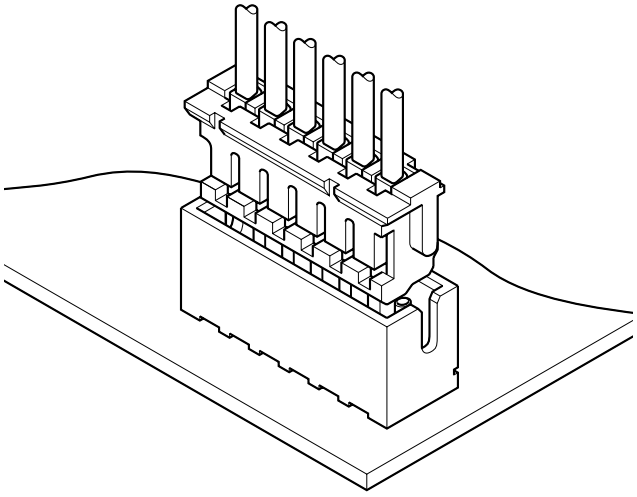


ZH CONNECTOR

Emboss Tape

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 Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- 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

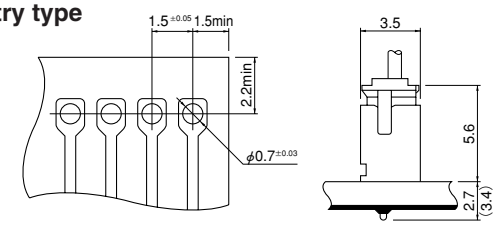
Recognized E60389

Certified LR20812

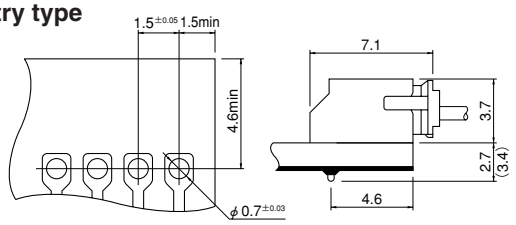
PC board layout and Assembly layout

〈Through-hole type (viewed from soldering side)〉

Top entry type



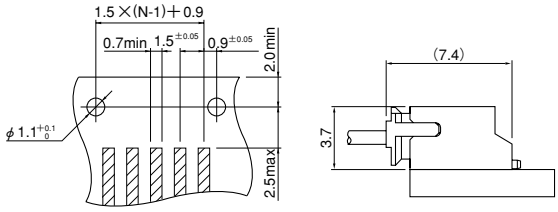
Side entry type



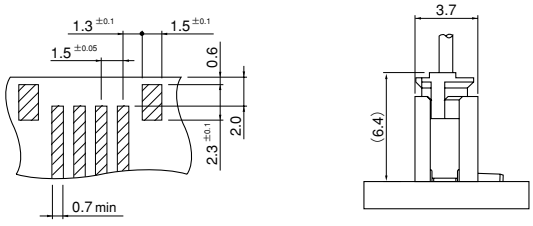
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

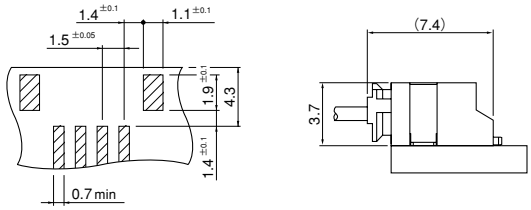
SM2 type
Side entry type



SM4 type
Top entry type

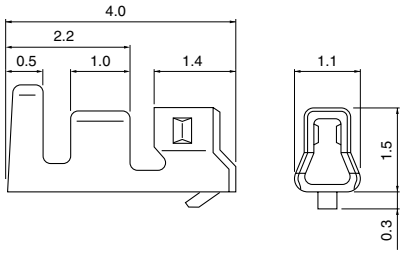


Side entry type



Note: 1. N...Number of circuits
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
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)

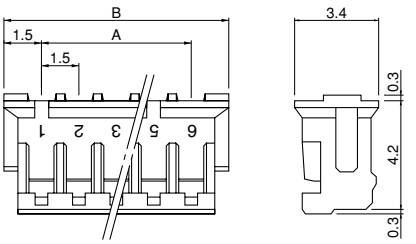
RoHS compliance

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

*Note: *Strip-crimp applicator.*

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

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
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

<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.

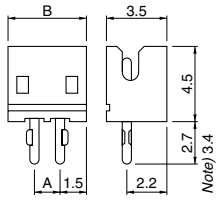
ex. **ZHR-2-OO**
(blank)…natural (white)
K…black R…red E…blue M…green L…lemon yellow
LE…light blue DO…dark orange H…gray

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.

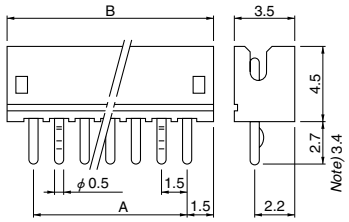
Through-hole type shrouded header

Top entry type

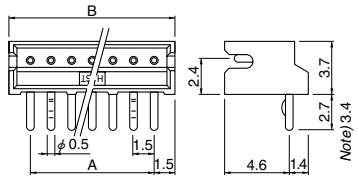
(2 circuits)



(3 circuits or more)



Side entry type



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

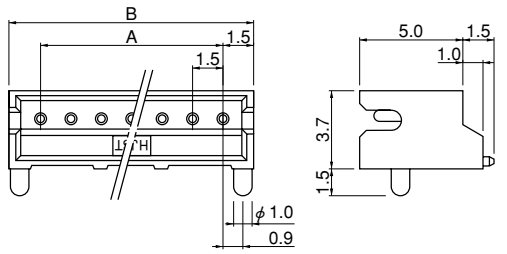
Note: Headers with 3.4mm long solder tails, suited for the 1.6mm thick PC board.

<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-OO**
(blank)…natural (ivory)
K…black R…red E…blue M…green

SMT type shrouded header

SM2 type
Side entry type



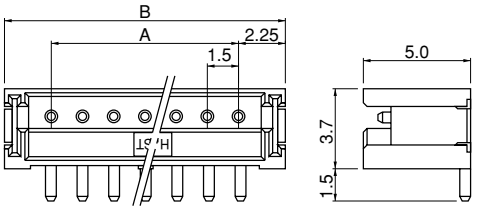
SM2 type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Side entry type	A	B	
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

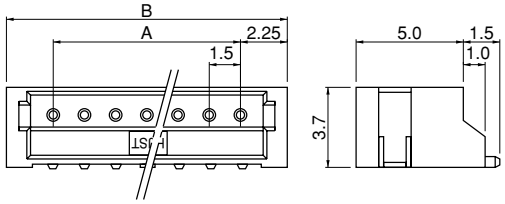
Material and Finish
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 46, UL94V-0, natural (ivory)

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

SM4 type (with solder tabs)
Top entry type



Side entry type



SM4 type

Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	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-oo-TF**
(blank)…natural (ivory)
K…black R…red E…blue M…green L…lemon yellow
LE…light blue DO…dark orange DH…dark gray