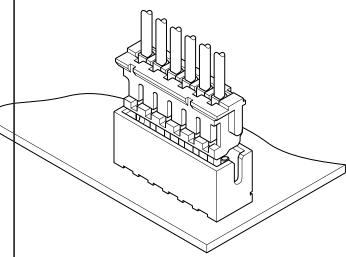


# ZH CONNECTOR



# 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

KAG-Identnummer 11053134 KV40607, 23.11.16, Ra.

## Specifications —

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

Voltage rating: 50 V AC, DC

Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

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

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

Insulation resistance: 500 MΩ min.
Withstanding voltage: 500 VAC/minute
Applicable wire: AWG #32 to #26

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

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

\* Contact JST for details.

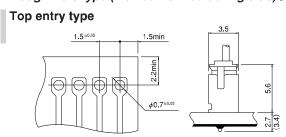
\* Compliant with RoHS.

### Standards -

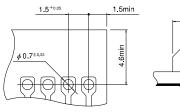
Recognized E60389

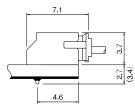
⑥ Certified LR20812

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



### Side entry type



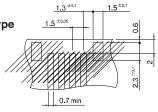


Note: 1. Tolerances are non-cumulative:  $\pm 0.05$ mm for all centers.

2. Hole dimension 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.

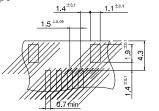
### ⟨SMT type (viewed from component side) ⟩

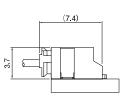
1.5 × (N-1) + 0.9 1.5 ±0.05 0.7min 0.7min 0.9+0.05 0.7min 0.9+0.05 0.7min 0.9+0.05 0.9+0.05 0.9+0.05 SM4 type
Top entry type



3.7

Side entry type





Note: 1. N. .. Number of circuits

SM2 type

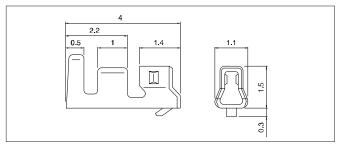
Side entry type

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

(7.4)

# **ZH CONNECTOR**

### Contact



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

Note: \*Strip-crimp applicator.

Model No.		Q'ty /			
woder 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	

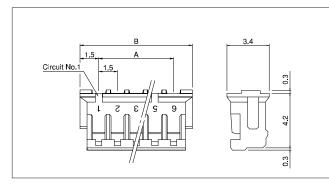
### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

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

### 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

	Circuits	Model No.	Dimension	Q'ty /	
	Circuits	Wodel 140.		В	bag
	2	ZHR-2	1.5	4.5	1,000
	3	ZHR-3	3.0	6.0	1,000
$\rightarrow$	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

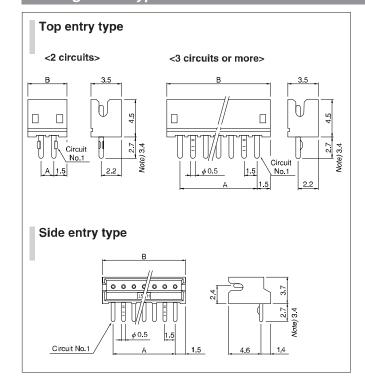
PA 66, UL94V-0, natural (white)

### 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.

### Through-hole type shrouded header



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

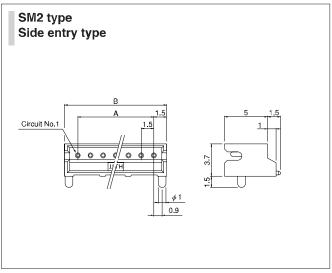
### ex. B2B-ZR-3.4-<u>oo</u>

(blank)...natural (ivory)

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

# **ZH CONNECTOR**

### SMT type shrouded header



# SM4 type (with solder tabs) Top entry type B A 2.25 Circuit No.1 Side entry type Circuit No.1 Side entry type

### SM2 type

	•			
Circuits	Model No.	Dimension	Q'ty /	
Circuits	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

Martal Na Binaraira (ma) Olta (mart								
Circuits	Model No.			Dimensions (mm)		Q'ty / reel		
Oilcuits	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. 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