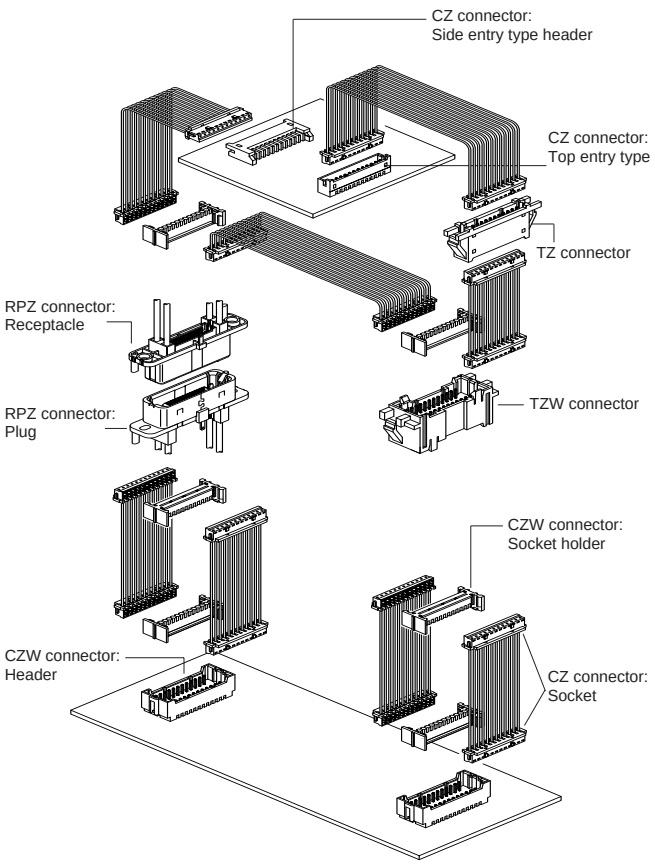


CZ FAMILY SERIES/CZ•CZW•CZH•CZHW•TZ•TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



※ CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5 mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ sockets, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ sockets.

CZ connector

- ***Distortion resistant construction***
- ***Compact and low profileCZW connector***

CZW connector

- ***Low insertion force***
- ***Locking construction***

CZH connector

- ***Housing lance***
- ***Intarchangeability***

TZ/TZW connector

- ***The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.***
- ***Applicable to wide range of panel thickness***
- ***The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.***

Standards

Recognized E60389
Certified LR20812

Specifications

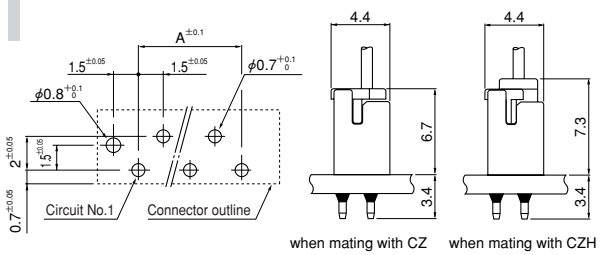
Item \ Serise	CZ / CZW connector	CZH / CZHW connector	TZ / TZW connector
Current rating	2 A AC, DC (AWG #26)		
Voltage rating	100 V AC, DC		
Temperature rise	-25°C to +85°C (including temperature rise)		
Contact resistance	Initial value / 10 mΩ max. After environmental tests / 20 mΩ max.		Initial value / 20 mΩ max. After environmental tests / 40 mΩ max.
Insulation resistance	500 MΩ min.		
Withstanding voltage	500 VAC/minute		
Applicable wire	UL10272 (Contact JST for other UL style wires.) AWG #28, #26 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.7 to 0.83 mm	AWG #28 to #26	–
Applicable PC board thickness	1.6 mm		–
Applicable panel thickness	–		0.5 to 2 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.

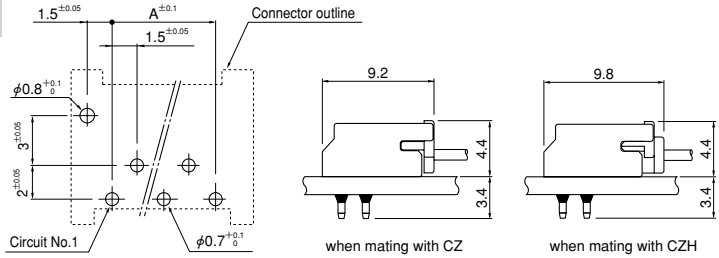
PC board layout and Assembly layout

<CZ connector through-hole type>

Top entry type



Side entry type

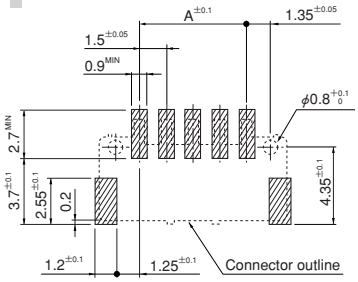


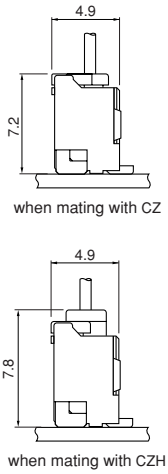
Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

PC board layout and Assembly layout

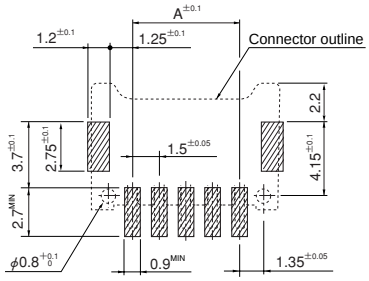
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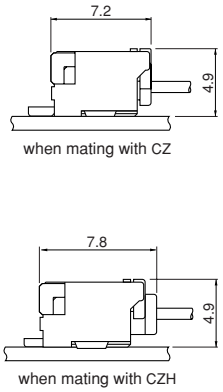
Top entry type





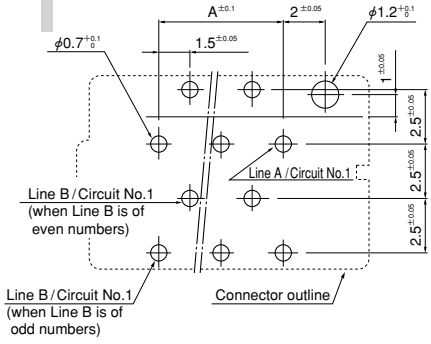
Side entry type

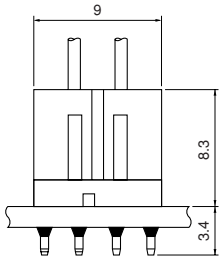




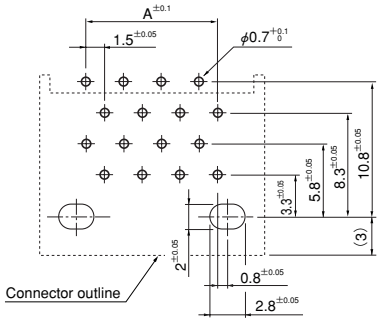
<CZW connector through-hole type>

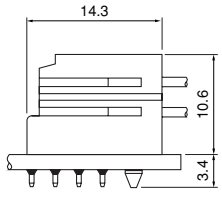
Top entry type



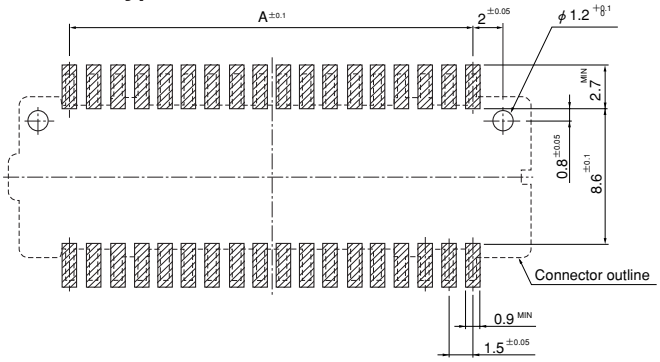


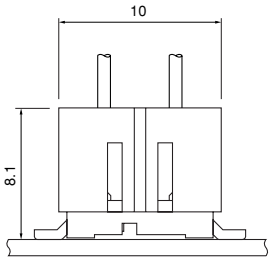
Side entry type





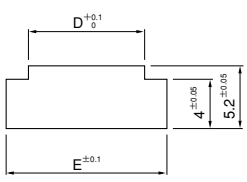
<CZW connector SMT type>

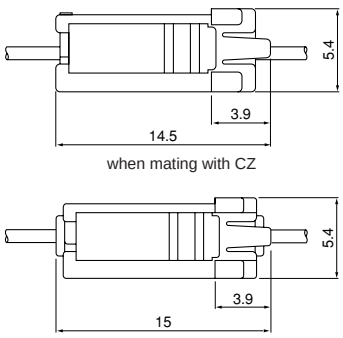




Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

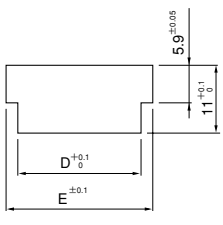
<TZ connector>

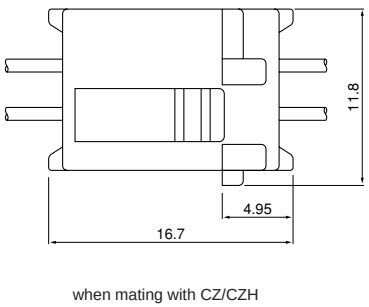




D,E dimensions: Refer to TZ connector (Until for wire-to-wire connection).

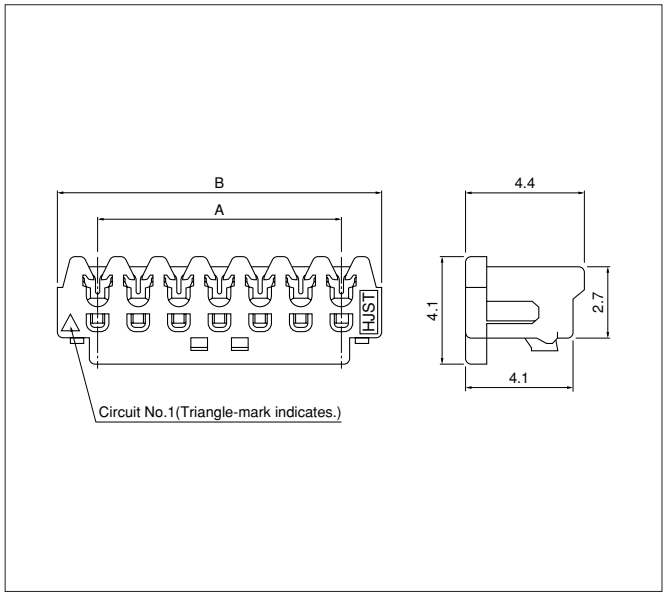
<TZW connector>





D,E dimensions: Refer to TZ connector (Dual-row until for wire-to-wire connection).

CZ connector socket



Circuits	Model No.		Dimensions (mm)		Q'ty/box
	Gray	Yellow	A	B	
2	**02CZ-6H**	**02CZ-6Y**	1.5	4.5	2,000
3	**03CZ-6H**	**03CZ-6Y**	3.0	6.0	2,000
4	**04CZ-6H**	**04CZ-6Y**	4.5	7.5	2,000
5	**05CZ-6H**	**05CZ-6Y**	6.0	9.0	2,000
6	**06CZ-6H**	**06CZ-6Y**	7.5	10.5	2,000
7	**07CZ-6H**	**07CZ-6Y**	9.0	12.0	2,000
8	**08CZ-6H**	**08CZ-6Y**	10.5	13.5	2,000
9	**09CZ-6H**	**09CZ-6Y**	12.0	15.0	1,000
10	**10CZ-6H**	**10CZ-6Y**	13.5	16.5	1,000
11	**11CZ-6H**	**11CZ-6Y**	15.0	18.0	1,000
12	**12CZ-6H**	**12CZ-6Y**	16.5	19.5	1,000
13	**13CZ-6H**	**13CZ-6Y**	18.0	21.0	1,000
14	**14CZ-6H**	**14CZ-6Y**	19.5	22.5	1,000
15	**15CZ-6H**	**15CZ-6Y**	21.0	24.0	1,000
16	**16CZ-6H**	**16CZ-6Y**	22.5	25.5	1,000
17	**17CZ-6H**	**17CZ-6Y**	24.0	27.0	1,000
18	**18CZ-6H**	**18CZ-6Y**	25.5	28.5	1,000
19	**19CZ-6H**	**19CZ-6Y**	27.0	30.0	1,000
20	**20CZ-6H**	**20CZ-6Y**	28.5	31.5	1,000

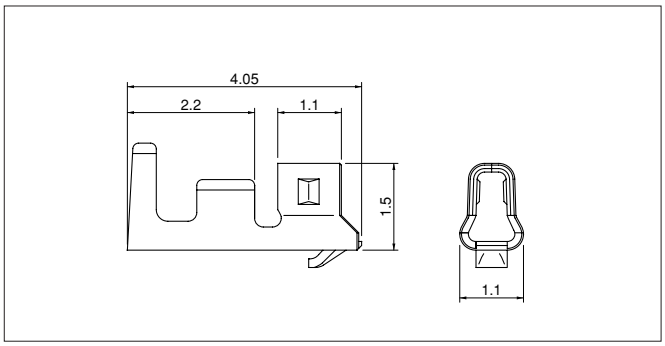
Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

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. **02CZ-6H**
Y…yellow H…natural (grayish color)

CZH connector contact



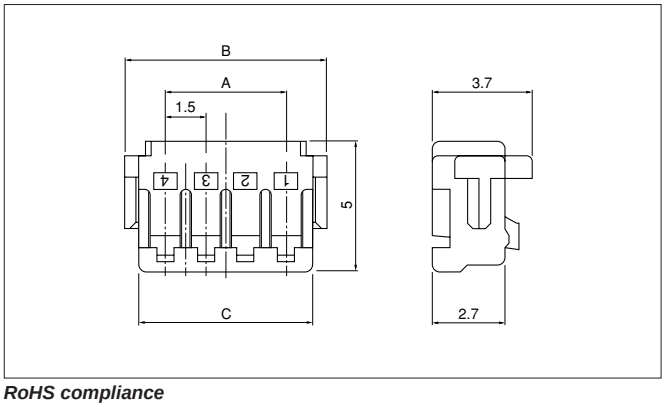
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08～0.13	28～26	0.8～1.1	13,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing



RoHS compliance

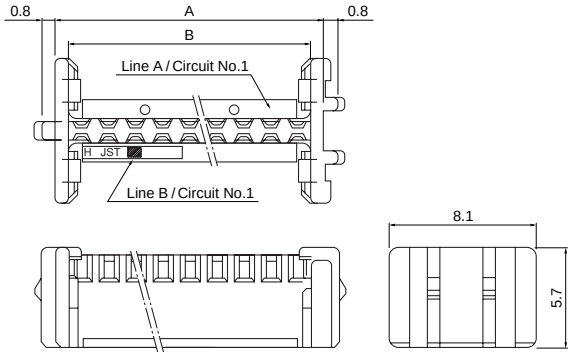
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **CZHR-02V-S**
S…natural (white)
K…black H…gray Y…yellow

Circuits	Model No.	Dimensions(mm)			Q'ty/ box
		A	B	C	
2	**CZHR-02V-S**	1.5	4.5	3.5	1,000
3	**CZHR-03V-S**	3.0	6.0	5.0	1,000
4	**CZHR-04V-S**	4.5	7.5	6.5	1,000
5	**CZHR-05V-S**	6.0	9.0	8.0	1,000
6	**CZHR-06V-S**	7.5	10.5	9.5	1,000
7	**CZHR-07V-S**	9.0	12.0	11.0	1,000
8	**CZHR-08V-S**	10.5	13.5	12.5	1,000
9	**CZHR-09V-S**	12.0	15.0	14.0	1,000
10	**CZHR-10V-S**	13.5	16.5	15.5	1,000
11	**CZHR-11V-S**	15.0	18.0	17.0	1,000
12	**CZHR-12V-S**	16.5	19.5	18.5	1,000
13	**CZHR-13V-S**	18.0	21.0	20.0	1,000
14	**CZHR-14V-S**	19.5	22.5	21.5	1,000
15	**CZHR-15V-S**	21.0	24.0	23.0	1,000
16	**CZHR-16V-S**	22.5	25.5	24.5	1,000
17	**CZHR-17V-S**	24.0	27.0	26.0	1,000
19	**CZHR-19V-S**	27.0	30.0	29.0	1,000
20	**CZHR-20V-S**	28.5	31.5	30.5	1,000

Material
PBT, UL94V-0, natural (white)

CZW connector holder



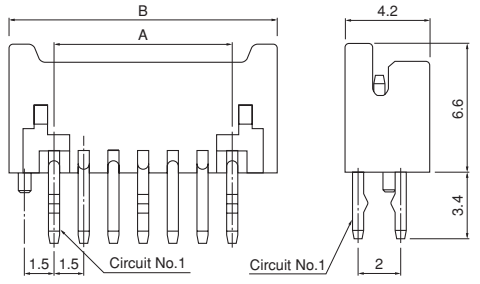
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
16	**CZWH-16-S**	14.9	13.5	1,000
18	**CZWH-18-S**	16.4	15.0	1,000
20	**CZWH-20-S**	17.9	16.5	1,000
22	**CZWH-22-S**	19.4	18.0	1,000
24	**CZWH-24-S**	20.9	19.5	1,000
26	**CZWH-26-S**	22.4	21.0	1,000
28	**CZWH-28-S**	23.9	22.5	1,000
30	**CZWH-30-S**	25.4	24.0	1,000
32	**CZWH-32-S**	26.9	25.5	1,000
34	**CZWH-34-S**	28.4	27.0	1,000
36	**CZWH-36-S**	29.9	28.5	1,000
38	**CZWH-38-S**	31.4	30.0	1,000
40	**CZWH-40-S**	32.9	31.5	1,000

Material
PBT, UL94V-0, natural (white)

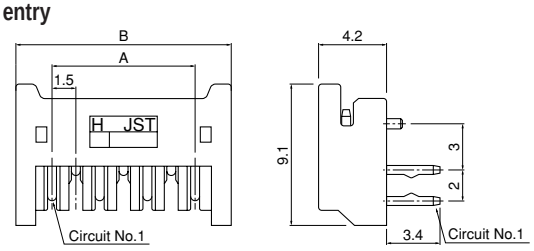
RoHS compliance

CZ connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B02B-CZHK-B-1**	**S02B-CZHK-B-1**	1.5	6.0	2,072	1,480
3	**B03B-CZHK-B-1**	**S03B-CZHK-B-1**	3.0	7.5	1,624	1,160
4	**B04B-CZHK-B-1**	**S04B-CZHK-B-1**	4.5	9.0	1,344	960
5	**B05B-CZHK-B-1**	**S05B-CZHK-B-1**	6.0	10.5	1,176	840
6	**B06B-CZHK-B-1**	**S06B-CZHK-B-1**	7.5	12.0	1,008	720
7	**B07B-CZHK-B-1**	**S07B-CZHK-B-1**	9.0	13.5	896	640
8	**B08B-CZHK-B-1**	**S08B-CZHK-B-1**	10.5	15.0	784	560
9	**B09B-CZHK-B-1**	**S09B-CZHK-B-1**	12.0	16.5	728	520
10	**B10B-CZHK-B-1**	**S10B-CZHK-B-1**	13.5	18.0	672	480
11	**B11B-CZHK-B-1**	**S11B-CZHK-B-1**	15.0	19.5	616	440
12	**B12B-CZHK-B-1**	**S12B-CZHK-B-1**	16.5	21.0	560	400
13	**B13B-CZHK-B-1**	**S13B-CZHK-B-1**	18.0	22.5	504	360
14	**B14B-CZHK-B-1**	**S14B-CZHK-B-1**	19.5	24.0	504	360
15	**B15B-CZHK-B-1**	**S15B-CZHK-B-1**	21.0	25.5	448	320
16	**B16B-CZHK-B-1**	**S16B-CZHK-B-1**	22.5	27.0	448	320
17	**B17B-CZHK-B-1**	**S17B-CZHK-B-1**	24.0	28.5	392	280
18	**B18B-CZHK-B-1**	**S18B-CZHK-B-1**	25.5	30.0	392	280
19	**B19B-CZHK-B-1**	**S19B-CZHK-B-1**	27.0	31.5	392	280
20	**B20B-CZHK-B-1**	**S20B-CZHK-B-1**	28.5	33.0	336	240

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)
Note: Models B( )B-CZHK-B are the headers without the boss.
Note: Models S( )B-CZHK-B are the headers without the boss.

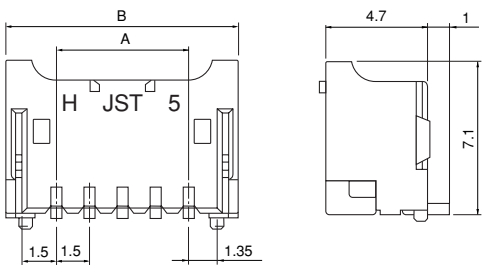
RoHS compliance *This product displays (LF)(SN) on a label.*

<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.

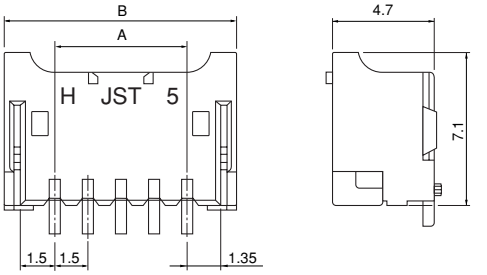
ex. **B02B-CZHK-B-1** *H…natural (grayish color) Y…yellow K…black*

CZ connector SMT type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions(mm)		Q'ty/reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**BM02B-CZSS-1-TF**	**SM02B-CZSS-1-TB**	1.5	6.0	800	1,250
4	**BM04B-CZSS-1-TF**	**SM04B-CZSS-1-TB**	4.5	9.0	800	1,250
5	**BM05B-CZSS-1-TF**	**SM05B-CZSS-1-TB**	6.0	10.5	800	1,250
6	**BM06B-CZSS-1-TF**	**SM06B-CZSS-1-TB**	7.5	12.0	800	1,250
8	**BM08B-CZSS-1-TF**	**SM08B-CZSS-1-TB**	10.5	15.0	800	1,250
10	**BM10B-CZSS-1-TF**	**SM10B-CZSS-1-TB**	13.5	18.0	800	1,250
13	**BM13B-CZSS-1-TF**	**SM13B-CZSS-1-TB**	18.0	22.5	800	1,250
14	**BM14B-CZSS-1-TF**	—	19.5	24.0	800	—
15	**BM15B-CZSS-1-TF**	—	21.0	25.5	800	—
16	**BM16B-CZSS-1-TF**	**SM16B-CZSS-1-TB**	22.5	27.0	800	1,250
17	**BM17B-CZSS-1-TF**	—	24.0	28.5	800	—
20	**BM20B-CZSS-1-TF**	—	28.5	33.0	800	—

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Note: Models BM( )B-CZSS-TF are the headers without the boss.
Note: Models SM( )B-CZSS-TF are the headers without the boss.

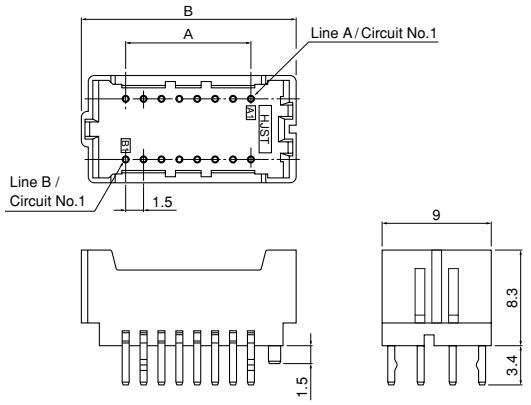
RoHS compliance *This product displays (LF)(SN) on a label.*

<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.

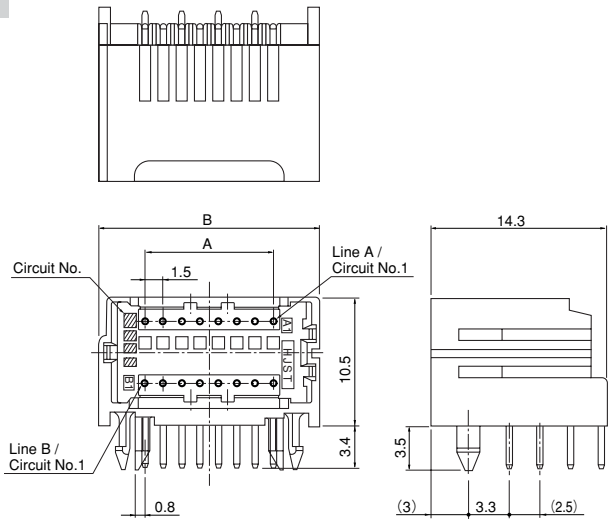
ex. **B02B-CZSS-1-TF** *S…natural (ivory) H…gray*

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	**B16B-CZWHK-B-1**	—	10.5	18.0	420	—
18	**B18B-CZWHK-B-1**	—	12.0	19.5	385	—
20	**B20B-CZWHK-B-1**	**S20B-CZWHS-B-1**	13.5	21.0	350	280
22	**B22B-CZWHK-B-1**	—	15.0	22.5	315	—
24	**B24B-CZWHK-B-1**	—	16.5	24.0	315	—
26	**B26B-CZWHK-B-1**	**S26B-CZWHS-B-1**	18.0	25.5	280	224
28	**B28B-CZWHK-B-1**	—	19.5	27.0	280	—
30	**B30B-CZWHK-B-1**	—	21.0	28.5	245	—
32	**B32B-CZWHK-B-1**	—	22.5	30.0	245	—
34	**B34B-CZWHK-B-1**	—	24.0	31.5	245	—
36	**B36B-CZWHK-B-1**	—	25.5	33.0	210	—
38	**B38B-CZWHK-B-1**	—	27.0	34.5	210	—
40	**B40B-CZWHK-B-1**	**S40B-CZWHS-B-1**	28.5	36.0	210	168

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color)
Note: Models B( )B-CZWHK-B are the headers without the boss.

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

<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.

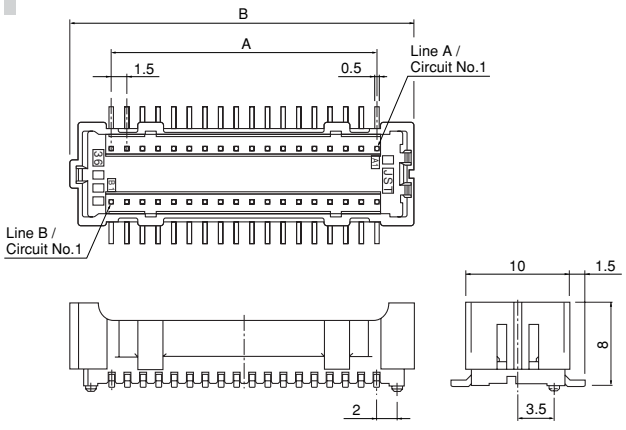
ex. **B16B-CZWHK-B-1**

H…natural (grayish color)

Y…yellow

CZW connector SMT type shrouded header

Top entry type

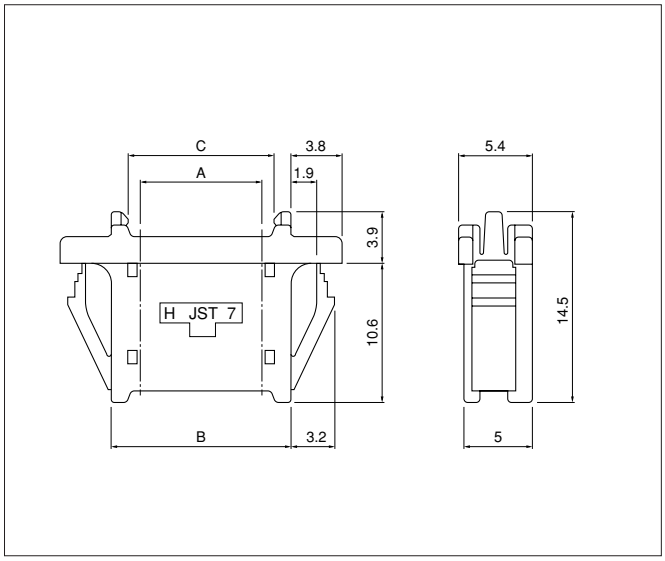


Circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
36	**BM36B-CZWSS-1-TF**	25.5	33.0	300
40	**BM40B-CZWSS-1-TF**	28.5	36.0	300

Material and Finish
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Note: Models BM( )B-CZWSS-TF are the headers without the boss.

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

TZ connector (Unit for wire-to-wire connection)

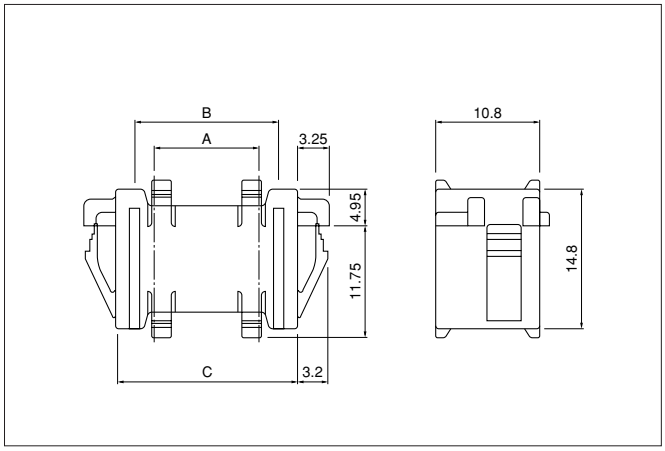


Circuits	Model No.	Dimensions (mm)					Q'ty/box
		A	B	C	D	E	
2	**BU02P-TZ-S**	1.5	5.9	3.5	6.3	9.9	500
3	**BU03P-TZ-S**	3.0	7.4	5.0	7.8	11.4	500
4	**BU04P-TZ-S**	4.5	8.9	6.5	9.3	12.9	500
5	**BU05P-TZ-S**	6.0	10.4	8.0	10.8	14.4	500
6	**BU06P-TZ-S**	7.5	11.9	9.5	12.3	15.9	250
7	**BU07P-TZ-S**	9.0	13.4	11.0	13.8	17.4	250
8	**BU08P-TZ-S**	10.5	14.9	12.5	15.3	18.9	250
9	**BU09P-TZ-S**	12.0	16.4	14.0	16.8	20.4	250
10	**BU10P-TZ-S**	13.5	17.9	15.5	18.3	21.9	250
11	**BU11P-TZ-S**	15.0	19.4	17.0	19.8	23.4	250
12	**BU12P-TZ-S**	16.5	20.9	18.5	21.3	24.9	250
13	**BU13P-TZ-S**	18.0	22.4	20.0	22.8	26.4	250
14	**BU14P-TZ-S**	19.5	23.9	21.5	24.3	27.9	250
15	**BU15P-TZ-S**	21.0	25.4	23.0	25.8	29.4	250
16	**BU16P-TZ-S**	22.5	26.9	24.5	27.3	30.9	250
17	**BU17P-TZ-S**	24.0	28.4	26.0	28.8	32.4	250
18	**BU18P-TZ-S**	25.5	29.9	27.5	30.3	33.9	150
19	**BU19P-TZ-S**	27.0	31.4	29.0	31.8	35.4	150
20	**BU20P-TZ-S**	28.5	32.9	30.5	33.3	36.9	100

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: D and E dimensions; Refer to the panel layout of TZ connector (Page2).

TZW connector (Dual-row unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Q'ty/box
		A	B	C	D	E	
16	**BU16P-TZW-S**	10.5	15.0	19.0	19.4	23.0	160
18	**BU18P-TZW-S**	12.0	16.5	20.5	20.9	24.5	140
20	**BU20P-TZW-S**	13.5	18.0	22.0	22.4	26.0	140
22	**BU22P-TZW-S**	15.0	19.5	23.5	23.9	27.5	140
24	**BU24P-TZW-S**	16.5	21.0	25.0	25.4	29.0	120
26	**BU26P-TZW-S**	18.0	22.5	26.5	26.9	30.5	120
28	**BU28P-TZW-S**	19.5	24.0	28.0	28.4	32.0	120
30	**BU30P-TZW-S**	21.0	25.5	29.5	29.9	33.5	100
32	**BU32P-TZW-S**	22.5	27.0	31.0	31.4	35.0	100
34	**BU34P-TZW-S**	24.0	28.5	32.5	32.9	36.5	100
36	**BU36P-TZW-S**	25.5	30.0	34.0	34.4	38.0	100
38	**BU38P-TZW-S**	27.0	31.5	35.5	35.9	39.5	100
40	**BU40P-TZW-S**	28.5	33.0	37.0	37.4	41.0	80

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: D and E dimensions; Refer to the panel layout of TZW connector (Page2).

Unikeyic Electronics

Global Electronic Components Distributor

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JST:

S34B-PHDSS-B(LF)(SN) BVM-61T-P2.0 03CSR-8PK B26B-J11DK-GWXR(LF) B2B-ZR-SM4-TFT
B3PS-VH (LF) FVP-1.25(PA)(LF) J11DF-20V-KX S03B-F32SK-GGYR B08P-VL B5B-PH-K-Y(LF)(SN)
SM06B-PASS-TBT S10B-PADSS-1 SYR-02T F31FMS-06V-KXX FLVDDF2-187A-8 FVWSPC-2
S07B-XASK-1 BS12P-SHF-1AA BU18P-TZ-S(LF)(SN) B32B-PHDSS-B B02B-PASK SHR-02V-S-B
SM20B-NSHDZS-TF WE2.5-10 BM03B-PASS-TFT(LF)(SN) BH03B-XASK-BN(LF)(SN) ACHR-04V-A-S
S05B-F32SK-GGXR SPND-001T-C0.5