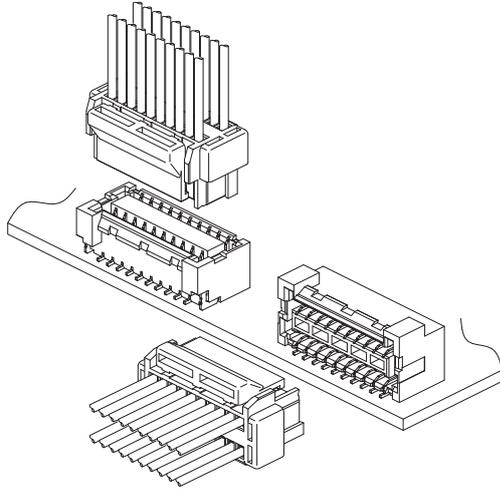




# GERD CONNECTOR

1.25 mm pitch/Wire-to-Board connectors/Crimp style and Mating style



The GERD connector is an upgraded version of the market-proven GHD connector with a 1.25 mm pitch, offering a dual-row solution. It features enhanced reverse mating protection and higher electrical performance. It presents a full lineup of both top-entry and side-entry-type connectors ranging from 10 to 40 pins. Its space-saving design achieves excellent insertion and withdrawal performance as a connector with tin-plated contacts. The contacts are compatible with the single-row GEZ connector, enabling cost savings in crimping equipment and improved operational efficiency.

- Reinforced design to prevent reverse mating
- Enhanced current rating
  - \* Rated 20% higher than the GHD connector.
- Secure lock mechanism
- Low insertion/extraction force
- Structured to prevent contact deformation
- Flat surface on header to ensure an airtight suction for pick and place machine

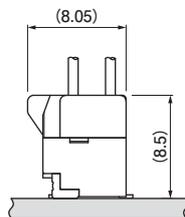
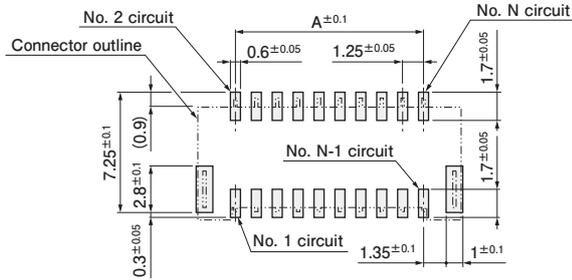
## ■ Specifications

- Current rating: 1.5 A AC/DC (AWG #26)  
1.0 A AC/DC (AWG #28)  
0.8 A AC/DC (AWG #30)
- Voltage rating: 50 V AC/DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance:
  - Initial value/ Top entry type: 30 mΩ max.
  - Side entry type: 50 mΩ max.
  - After test/ Top entry type: 50 mΩ max.
  - Side entry type: 70 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:
  - There shall be no breakdown or flashover while applying 500 VAC for one minute.
- Applicable wire range:
  - Conductor size/ AWG #30 to AWG #26
  - Insulation O.D./  $\phi$  0.76 mm to  $\phi$  1.05 mm
- \* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

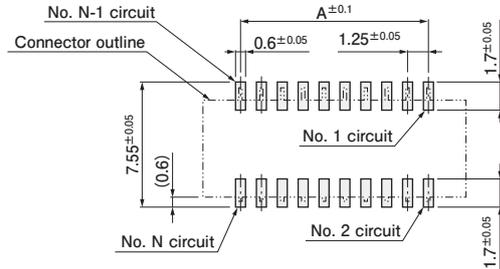
# GERD CONNECTOR

## PC board layout and Assembly layout

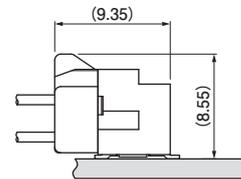
### Top entry type



### Side entry type

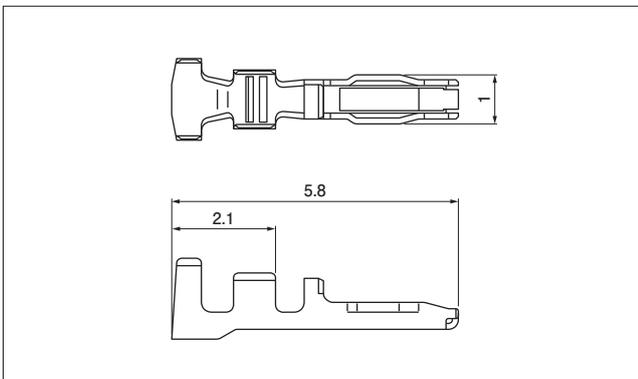


(Mating interface side of connector)



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.  
 2. Tolerance for the PCB pattern pitch shall be  $\pm 0.05$ , and shall not accumulate more than  $\pm 0.1$ .  
 The above dimensions are for reference only. Please contact JST for further details.

## Contact



Model No.	Applicable wire range		Q'ty/ reel	
	Conductor size	AWG (mm <sup>2</sup> )		Insulation O.D. (mm)
SGEZD-002T-C0.2A	#30 to #26	(0.05 to 0.13)	0.76 to 1.05	25,000

Material and Surface finish, etc.

Copper alloy, tin-plated

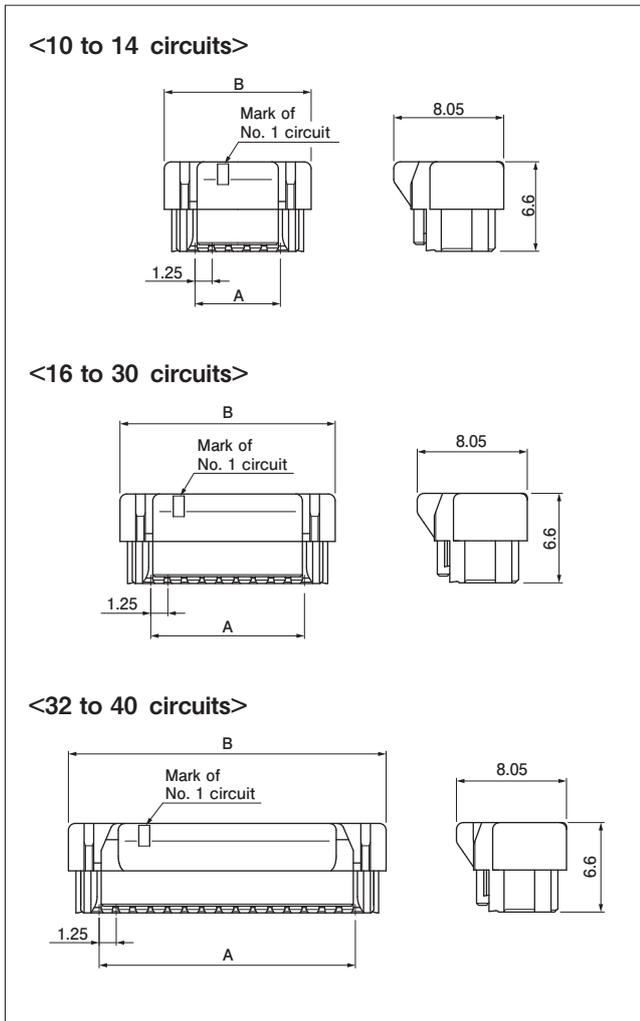
### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SGEZD-002T-C0.2A	AP-K2N	MKS-L-10-3	APLMK SSSL002-02

Note: Contact JST for fully automatic crimping applicator.

# GERD CONNECTOR

## Housing



No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
10	GERDR-10V-K	5.00	9.50	1,000
12	GERDR-12V-K	6.25	10.75	1,000
14	GERDR-14V-K	7.50	12.00	1,000
16	GERDR-16V-K	8.75	13.25	1,000
18	GERDR-18V-K	10.00	14.50	1,000
20	GERDR-20V-K	11.25	15.75	1,000
22	GERDR-22V-K	12.50	17.00	1,000
24	GERDR-24V-K	13.75	18.25	1,000
26	GERDR-26V-K	15.00	19.50	1,000
28	GERDR-28V-K	16.25	20.75	1,000
30	GERDR-30V-K	17.50	22.00	1,000
32	GERDR-32V-K	18.75	23.25	1,000
34	GERDR-34V-K	20.00	24.50	1,000
36	GERDR-36V-K	21.25	25.75	1,000
38	GERDR-38V-K	22.50	27.00	1,000
40	GERDR-40V-K	23.75	28.25	1,000

Material and Surface finish, etc.

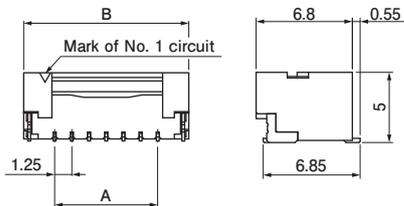
PBT, black

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

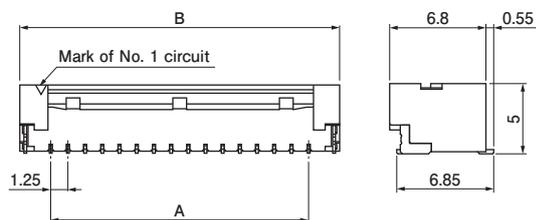
## Header

### Top entry type

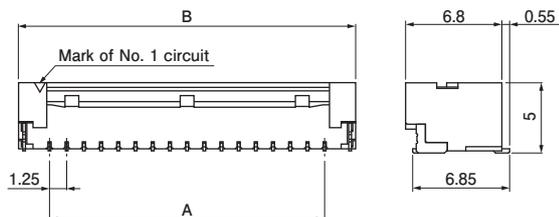
#### <10 to 14 circuits>



#### <16 to 32 circuits>

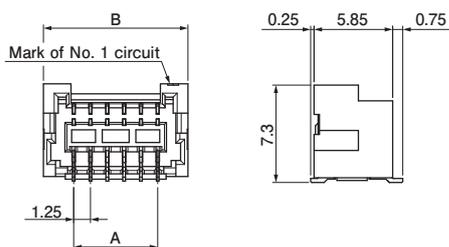


#### <34 to 40 circuits>

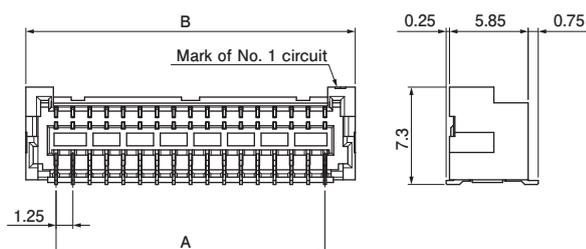


### Side entry type

#### <10 to 14 circuits>



#### <16 to 40 circuits>



### Top entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
10	BM10B-GERDK-TF	5.00	9.50	1,250
12	BM12B-GERDK-TF	6.25	10.75	1,250
14	BM14B-GERDK-TF	7.50	12.00	1,250
16	BM16B-GERDK-TF	8.75	13.25	1,250
18	BM18B-GERDK-TF	10.00	14.50	1,250
20	BM20B-GERDK-TF	11.25	15.75	1,250
22	BM22B-GERDK-TF	12.50	17.00	1,250
24	BM24B-GERDK-TF	13.75	18.25	1,250
26	BM26B-GERDK-TF	15.00	19.50	1,250
28	BM28B-GERDK-TF	16.25	20.75	1,250
30	BM30B-GERDK-TF	17.50	22.00	1,250
32	BM32B-GERDK-TF	18.75	23.25	1,250
34	BM34B-GERDK-TF	20.00	24.50	1,250
36	BM36B-GERDK-TF	21.25	25.75	1,250
38	BM38B-GERDK-TF	22.50	27.00	1,250
40	BM40B-GERDK-TF	23.75	28.25	1,250

Material and Surface finish, etc.

Contact: Copper alloy, tin-plated  
Housing: PA (Heat Resistance), black  
Reinforcement: Copper alloy, tin-plated

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

### Side entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
10	SM10B-GERDK-TF	5.00	9.50	900
12	SM12B-GERDK-TF	6.25	10.75	900
14	SM14B-GERDK-TF	7.50	12.00	900
16	SM16B-GERDK-TF	8.75	13.25	900
18	SM18B-GERDK-TF	10.00	14.50	900
20	SM20B-GERDK-TF	11.25	15.75	900
22	SM22B-GERDK-TF	12.50	17.00	900
24	SM24B-GERDK-TF	13.75	18.25	900
26	SM26B-GERDK-TF	15.00	19.50	900
28	SM28B-GERDK-TF	16.25	20.75	900
30	SM30B-GERDK-TF	17.50	22.00	900
32	SM32B-GERDK-TF	18.75	23.25	900
34	SM34B-GERDK-TF	20.00	24.50	900
36	SM36B-GERDK-TF	21.25	25.75	900
38	SM38B-GERDK-TF	22.50	27.00	900
40	SM40B-GERDK-TF	23.75	28.25	900

Material and Surface finish, etc.

Contact: Copper alloy, tin-plated  
Housing: PA (Heat Resistance), black

Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

# GERD CONNECTOR

## Model number allocation

### Contact

**S GEZD - 002 T - C 0.2 A**

Supply form: Strip form

Series name

Applicable wire range: AWG #30 to AWG #26

Surface finish: Tin-plated

Material: Copper alloy

Applicable contact size

Sub model number

### Housing

**GERD R- 20 V - K**

Series name

Type: For receptacle contact

No. of circuits

Sub model number

Color: K··Black, S··Natural (White), E··Blue, TR··Tomato red  
MG··Moss green, NB··Navy blue

### Header/ Top entry type

**BM 20 B - GERD K - TF**

Header type: SMT top entry type

No. of circuits

Assembly product

Series name

Color: K··Black, S··Natural (Ivory), E··Blue  
TR··Tomato red , MG··Moss green,  
NB··Navy blue

Packaging style: Embossed taping

### Header/ Side entry type

**SM 20 B - GERD K - TF**

Header type: SMT side entry type

No. of circuits

Assembly product

Series name

Color: K··Black, S··Natural (Ivory), E··Blue  
TR··Tomato red , MG··Moss green,  
NB··Navy blue

Packaging style: Embossed taping