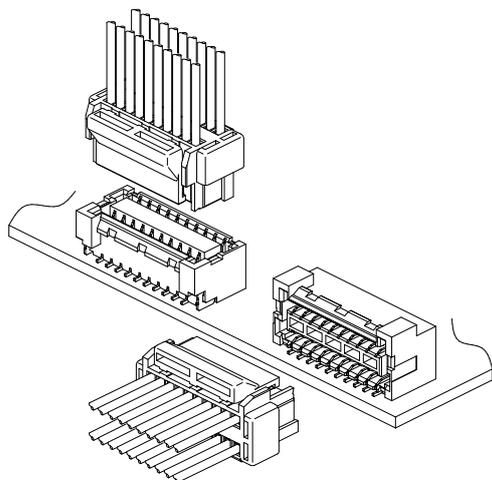




GERD CONNECTOR

1.25 mm pitch/ Disconnectable Crimp style connectors



In order to correspond to the high-density PC board designing, this GERD connector is designed as 1.25 mm pitch Dual row type connector. The full lineup of 10 to 40 circuits for top and side entry types is provided. Its operability is very well, despite the small size connector with tin-plated.

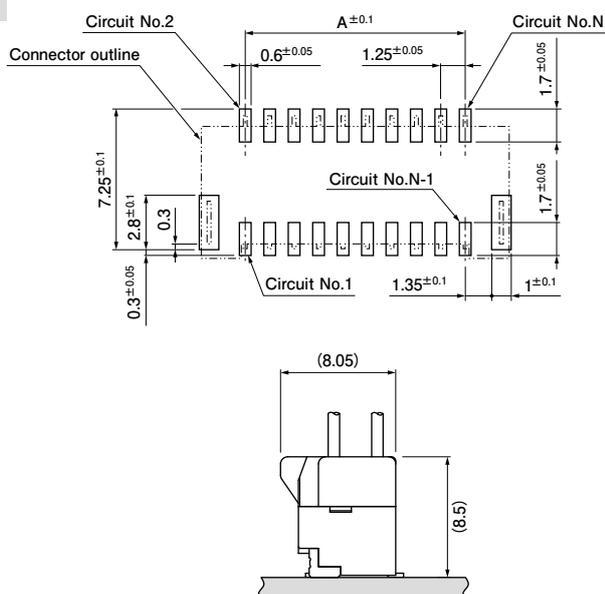
- Secure locking structure
- Low insertion/withdrawal forces
- Prevention of contact deformation
- Suction area on header is secured.
- Mis-mating prevention mechanism

Specifications

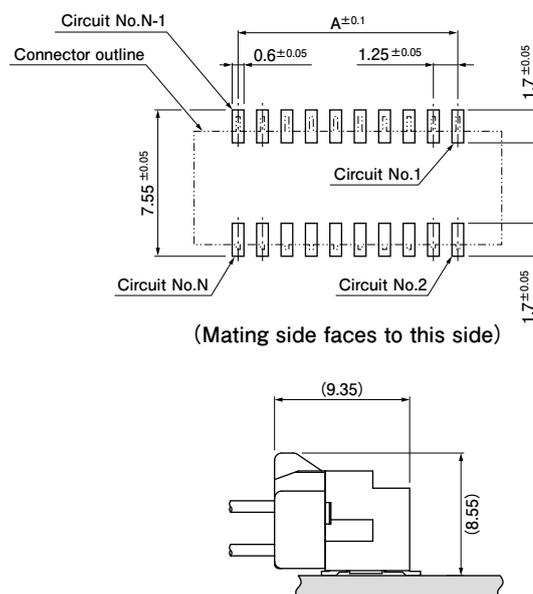
- Current rating: 1.5 A AC/DC (AWG #26)
1.0 A AC/DC (AWG #28)
0.8 A AC/DC (AWG #30)
 - Voltage rating: 50 V AC/DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance:
 - Initial value: Top entry type/ 30 mΩ max.
Side entry type/ 50 mΩ max.
 - After environmental tests: Top entry type/ 50 mΩ max.
Side entry type/ 70 mΩ max.
 - Insulation resistance: 100 MΩ min.
 - Withstanding voltage: 500 VAC/minute
 - Applicable wire: Conductor size/ AWG #30 to #26
Insulation O.D./ 0.76 mm to 1.05 mm
- * In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

PC board layout and Assembly layout

Top entry type



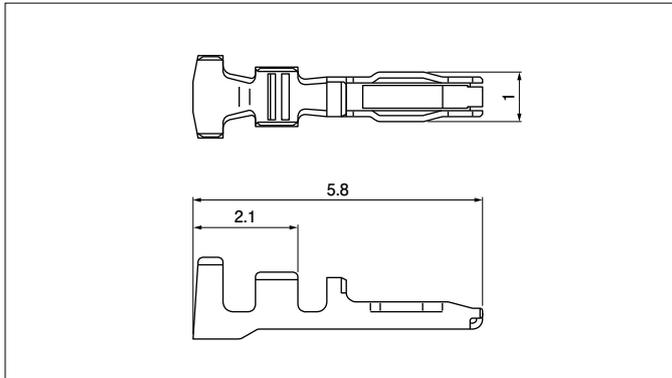
Side entry type



Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerance for the centers of pattern on PCB is ± 0.05, and shall not be cumulative over than ± 0.1.
Please contact JST for details as the dimensions shown in the above figure are reference values.

GERD CONNECTOR

Contact



| Model No. | Applicable wire | | Insulation O.D. (mm) | Q'ty/reel |
|------------------|-----------------|-------|----------------------|-----------|
| | mm ² | AWG# | | |
| SGEZD-002T-C0.2A | 0.05~0.13 | 30~26 | 0.76~1.05 | 25,000 |

Material and Finish

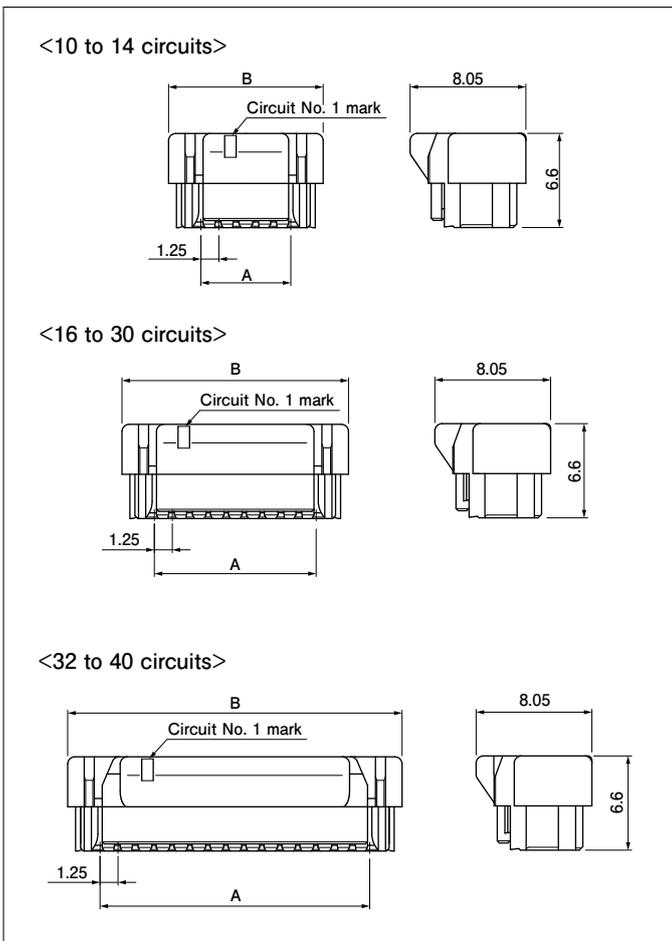
Copper alloy, tin-plated (reflow treatment)

RoHS2 compliance

| Contact | Crimping machine | Applicator | | |
|------------------|------------------|------------------|----------------|----------------------------|
| | | Crimp applicator | Dies | Crimp applicator with dies |
| SGEZD-002T-C0.2A | AP-K2N | MKS-L-10-3 | MK/SSHL-002-02 | APLMK SSHL002-02 |

Note: Contact JST for fully automatic crimping applicator.

Housing



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

Material and Finish

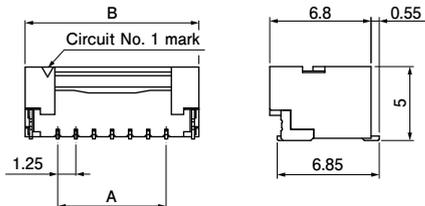
PBT, UL94V-0, natural (white)

RoHS2 compliance

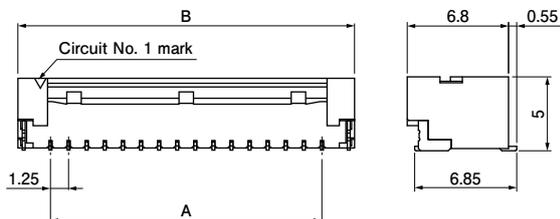
Header

Top entry type

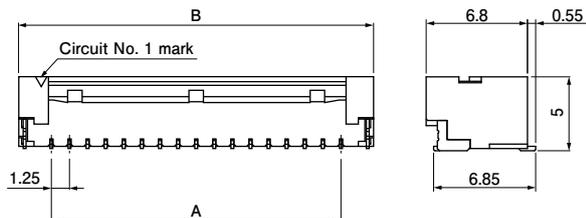
<10 to 14 circuits>



<16 to 32 circuits>

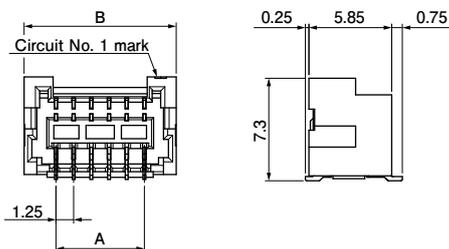


<34 to 40 circuits>

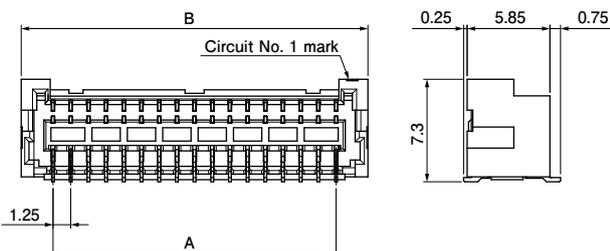


Side entry type

<10 to 14 circuits>



<16 to 40 circuits>



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

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, natural (ivory)

Reinforcement: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS2 compliance

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

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

Housing: PA 9T, UL94V-0, natural (ivory)

RoHS2 compliance

GERD CONNECTOR

Model number allocation

Contact

S GEZD - 002 T - C 0.2 A

Form : S...Strip form

Series name

Applicable wire : 002...AWG #30 to #26

Surface finish : T...Tin-plated (reflow treatment)

Material : C...Copper alloy

Applicable terminal size

Type : A...A type

Housing

GERD R- 20 V - S

Series name

Part name : Receptacle

No. of circuits : Even number circuits from 10 to 40

Flammability : V...UL94V-0

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

Header/ Top entry type

BM 20 B - GERD S - TF

Shape of assembled product : SMT Top entry type

No. of circuits : Even number circuits from 10 to 40

Part name : Header

Series name

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

Packaging style : TF...Embossed-taping

Header/ Side entry type

SM 20 B - GERD S - TF

Shape of assembled product : SMT Side entry type

No. of circuits : Even number circuits from 10 to 40

Part name : Header

Series name

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

Packaging style : TF...Embossed-taping