



Board-to-board connectors



#### Features -

#### • Smooth connection

Thanks to the cantilever type contacts, mating is very smooth.

#### • Distortion preventive construction

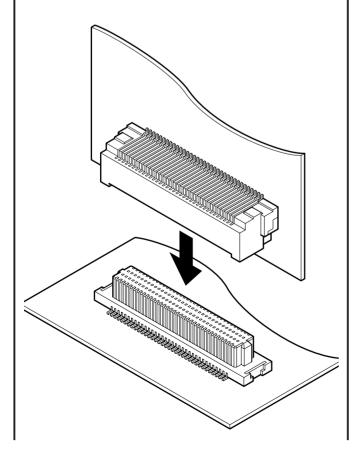
Box-shaped plug housing has the guide ribs on both ends, which prevents distortion, and offsetting the rib from the center axis provides the mating directionality.

#### • Wide range of circuits

No. of circuits available are from 20 to 100, every 10 circuits.

### • Embossed taping for automatic mounting

This connector is supplied in embossed tape packaging, for mounting by automatic placement machines.



## Specifications —

Current rating: 0.5A AC, DCVoltage rating: 50V AC, DC

• Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/50m  $\Omega$  max.

After environmental testing/100m  $\Omega$  max.

• Insulation resistance: 50M  $\Omega$  min.

• Withstanding voltage: 100V AC/minute

\* Compliant with RoHS.

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

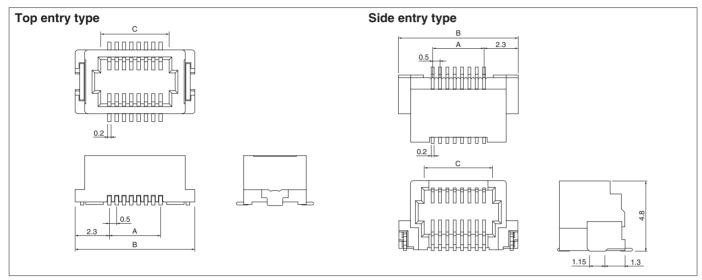
\* Contact JST for details.

## Standards -

Recognized E60389

Certified LR20812

## Plug -



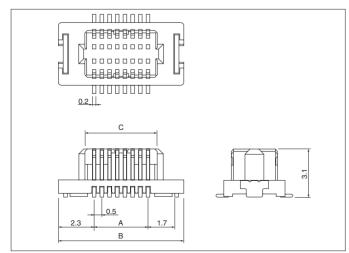
|          | Model No.         |                     |                     |                    | Dimensions (mm) |      |                |       |
|----------|-------------------|---------------------|---------------------|--------------------|-----------------|------|----------------|-------|
| Circuits | Top entry type    |                     | Cide entry type     |                    | В               | С    | Q'ty /<br>reel |       |
|          | 4.5mm             | 5.0mm               | 6.0mm               | Side entry type    | A               | В    |                |       |
| 20       | 20P-JMDSS-G-1-TF  | _                   | _                   | 20PS-JMDSS-G-1-TF  | 4.5             | 9.1  | 5.7            | 1,500 |
| 30       | -                 | 30P5.0-JMDSS-G-1-TF | _                   | 30PS-JMDSS-G-1-TF  | 7.0             | 11.6 | 8.2            | 1,500 |
| 40       | 40P-JMDSS-G-1-TF  | 40P5.0-JMDSS-G-1-TF | _                   | 40PS-JMDSS-G-1-TF  | 9.5             | 14.1 | 10.7           | 1,500 |
| 50       | 50P-JMDSS-G-1-TF  | _                   | 50P6.0-JMDSS-G-1-TF | 50PS-JMDSS-G-1-TF  | 12.0            | 16.6 | 13.2           | 1,500 |
| 60       | 60P-JMDSS-G-1-TF  | _                   | 60P6.0-JMDSS-G-1-TF | 60PS-JMDSS-G-1-TF  | 14.5            | 19.1 | 15.7           | 1,500 |
| 70       | 70P-JMDSS-G-1-TF  | _                   | 70P6.0-JMDSS-G-1-TF | 70PS-JMDSS-G-1-TF  | 17.0            | 21.6 | 18.2           | 1,500 |
| 80       | 80P-JMDSS-G-1-TF  | _                   | _                   | 80PS-JMDSS-G-1-TF  | 19.5            | 24.1 | 20.7           | 1,500 |
| 100      | 100P-JMDSS-G-1-TF | _                   | _                   | 100PS-JMDSS-G-1-TF | 24.5            | 29.1 | 25.7           | 1,500 |

#### Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated Housing: PA 6T, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label. Note: The products listed above are supplied on embossed-tape.

## Receptacle



| Cir-  | Model No             | Dimensions (mm) |      |      |       |  |
|-------|----------------------|-----------------|------|------|-------|--|
| cuits | wiodei No.           | Α               | В    | С    | reel  |  |
| 20    | 20R-JMDSS-G-1-TF(S)  | 4.5             | 9.1  | 5.7  | 1,500 |  |
| 30    | 30R-JMDSS-G-1-TF(S)  | 7.0             | 11.6 | 8.2  | 1,500 |  |
| 40    | 40R-JMDSS-G-1-TF(S)  | 9.5             | 14.1 | 10.7 | 1,500 |  |
| 50    | 50R-JMDSS-G-1-TF(S)  | 12.0            | 16.6 | 13.2 | 1,500 |  |
| 60    | 60R-JMDSS-G-1-TF(S)  | 14.5            | 19.1 | 15.7 | 1,500 |  |
| 70    | 70R-JMDSS-G-1-TF(S)  | 17.0            | 21.6 | 18.2 | 1,500 |  |
| 80    | 80R-JMDSS-G-1-TF(S)  | 19.5            | 24.1 | 20.7 | 1,500 |  |
| 100   | 100R-JMDSS-G-1-TF(S) | 24.5            | 29.1 | 25.7 | 1,500 |  |

Contact: Phosphor bronze, nickel-undercoated, gold-plated

Housing: PA 6T, UL94V-0

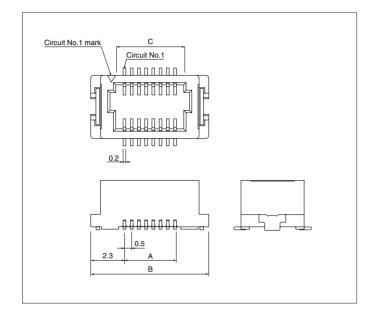
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

Material and Finish

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

Note: The products listed above are supplied on embossed-tape.

## Plug with polarizing key-



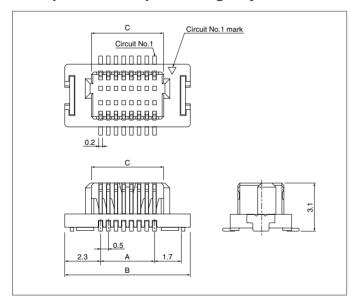
| Cir-  | Model No.               | Dim  | Q'ty / |      |       |
|-------|-------------------------|------|--------|------|-------|
| cuits | Stacking height /4.5mm  | Α    | В      | С    | reel  |
| 60    | 60P-JMDHS-GAN-1A-TF (A) | 14.5 | 19.1   | 15.7 | 1,500 |

#### Material and Finish

Contact: Phosphor bronze, nickel-underplated, gold-plated (nickel-stripe) Housing: PA6T, UL94V-0, gray Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS compliance** This product displays (LF)(SN) on a label. This products listed above are supplied on embossed-tape.

## Receptacle with polarizing key



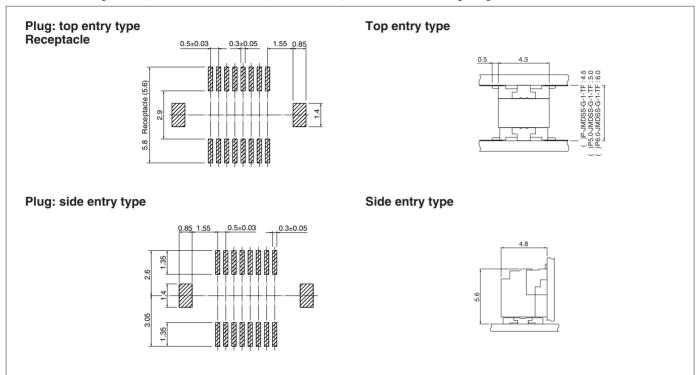
| Cir-<br>cuits | Model No.                | Dim  | Q'ty / |      |       |
|---------------|--------------------------|------|--------|------|-------|
|               | Stacking height /4.5mm   | Α    | В      | С    | reel  |
| 60            | 60R-JMDHS-GAN-1A-TF (SA) | 14.5 | 19.1   | 15.7 | 1,500 |

#### Material and Finish

Contact: Phosphor bronze, nickel-underplated, gold-plated (nickel-stripe) Housing: PA6T, UL94V-0, gray Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS compliance** This product displays (LF)(SN) on a label. This products listed above are supplied on embossed-tape.

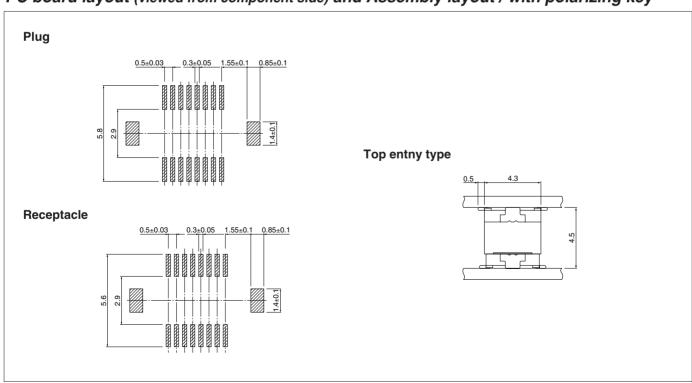
## PC board layout (viewed from component side) and Assembly layout-



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

## PC board layout (viewed from component side) and Assembly layout / with polarizing key-



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.