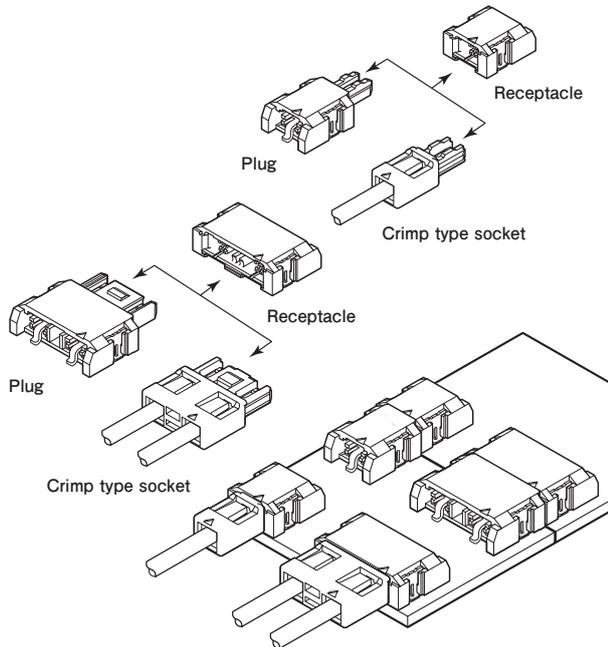


# LEB CONNECTOR

4.0 mm pitch/For LED Lamp/Board-to-Board connectors/Crimp style and Mating style



Considering about luminescence property of LED device, this LEB connector is designed as low profile type connector (height: 2.7 mm) for LED lighting, and achieves the space saving. The horizontal connection between PCBs enables and the mechanism of absorbing the PCB misalignment has been installed considering the parallel use for the connector. Fork type contact that has a high contact pressure (receptacle side) and enough mating stroke provide the stable contact performance even if the PCB expands and contracts due to heat.

- Absorption misalignment mechanism (only connector pitch direction)
- The PCB layout is in common with plug and receptacle connectors.
- Mechanism for preventing wrong insertion
- Crimp type socket that is mated with receptacle connector is available.

## Standards

:Recognized E 60389

:Certified LR 20812

## Specifications

<For board-to-board>

- Current rating: 3 A AC/DC
- Voltage rating: 300 V AC/DC
- Temperature range: -55°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance:
  - Initial value/ 20 mΩ max.
  - After environmental tests/ 40 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage:
  - There shall be no breakdown or flashover while applying 1,700 VAC for one minute.

<For crimp style connection>

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 300 V AC/DC
- Temperature range: -55°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance:
  - Initial value/ 20 mΩ max.
  - After environmental tests/ 40 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage:
  - There shall be no breakdown or flashover while applying 1,700 VAC for one minute.
- Applicable wire range:
  - Conductor size/ AWG #26 to AWG #22
  - Insulation O.D./ φ 0.95 mm to φ 1.3 mm

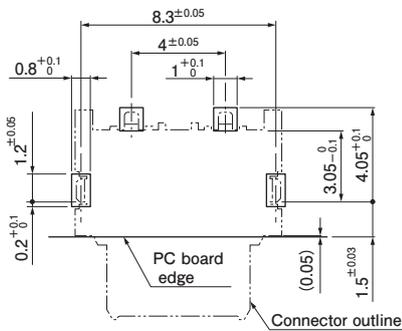
\* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.

- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

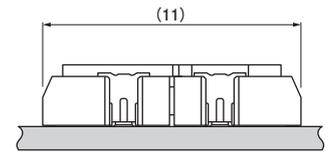
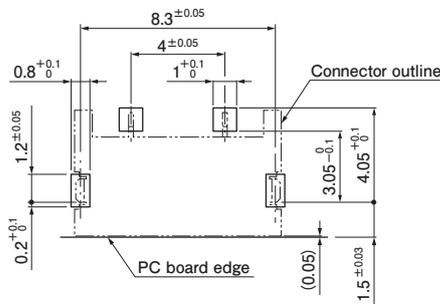
# LEB CONNECTOR

## PC board layout and Assembly layout

### Plug



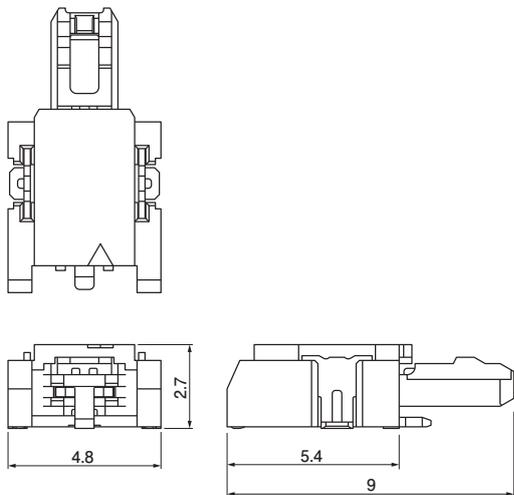
### Receptacle



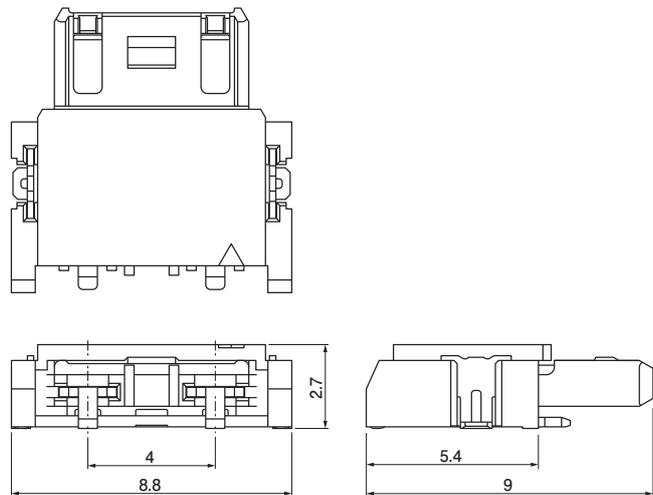
- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.  
 2. Tolerance for the PCB pattern pitch shall be  $\pm 0.05$  and shall not accumulate.  
 The above dimensions are reference values. Please contact JST for details.

## Plug

### <Single circuit>



### <2 circuits>



No. of circuits	Model No.	Q'ty/reel
1	01P-LEBSS-TF	2,000
2	02P-LEBSS-TF	2,000

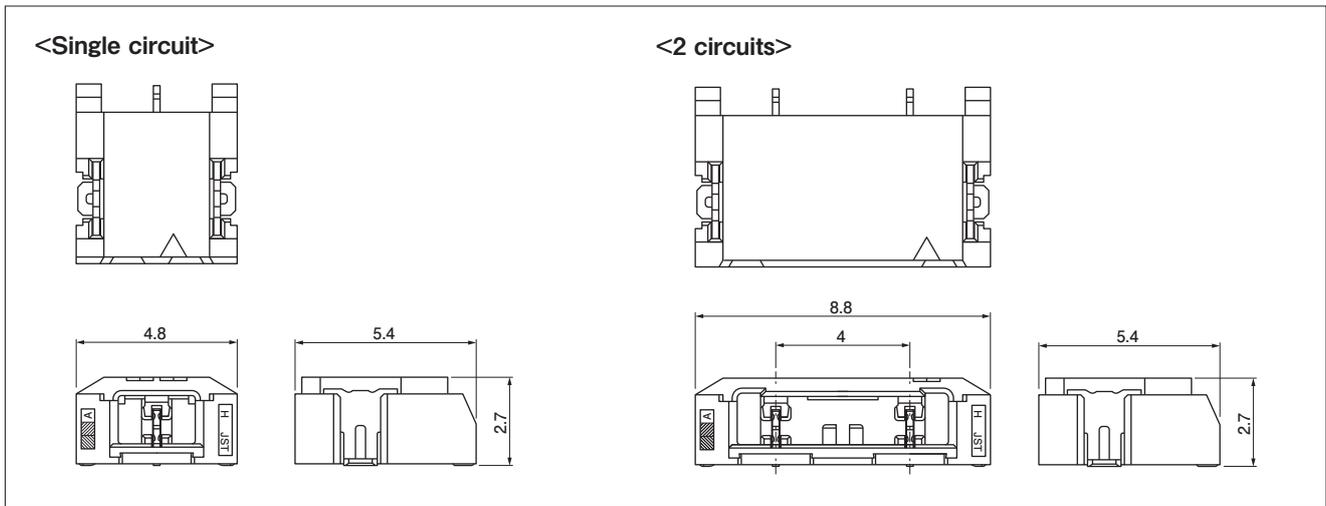
Material and Surface finish, etc.

Contact: Copper alloy, copper-underplated, tin-plated  
 Housing: PA 9T, UL94V-0, white  
 Reinforcement: Copper alloy, tin-plated

- Note: 1. This product displays (LF)(SN) on a label.  
 2. This product is supplied on embossed tape and reel packaging.

# LEB CONNECTOR

## Receptacle



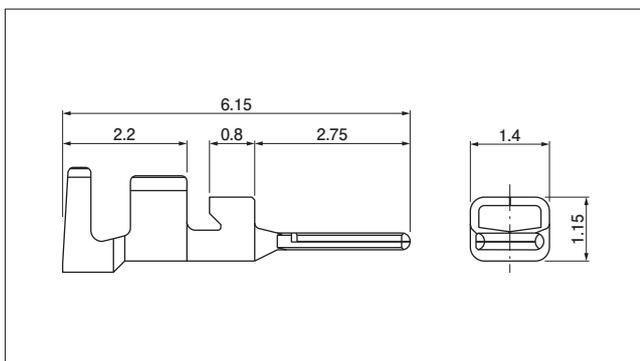
No. of circuits	Model No.	Q'ty/reel
1	01R-LEBSS-TB	2,000
2	02R-LEBSS-TB	2,000

Material and Surface finish, etc.

Contact: Copper alloy, copper-underplated, tin-plated  
 Housing: PA 9T, UL94V-0, white  
 Reinforcement: Copper alloy, tin-plated

- Note: 1. This product displays (LF)(SN) on a label.  
 2. This product is supplied on embossed tape and reel packaging.

## Contact



Model No.	Applicable wire range		Insulation O.D. (mm)	Q'ty/ reel
	mm <sup>2</sup>	AWG#		
SLEB-001T-P0.2	0.13 to 0.33	26 to 22	0.95 to 1.3	15,000

Material and Surface finish, etc.

Copper alloy, tin-plated

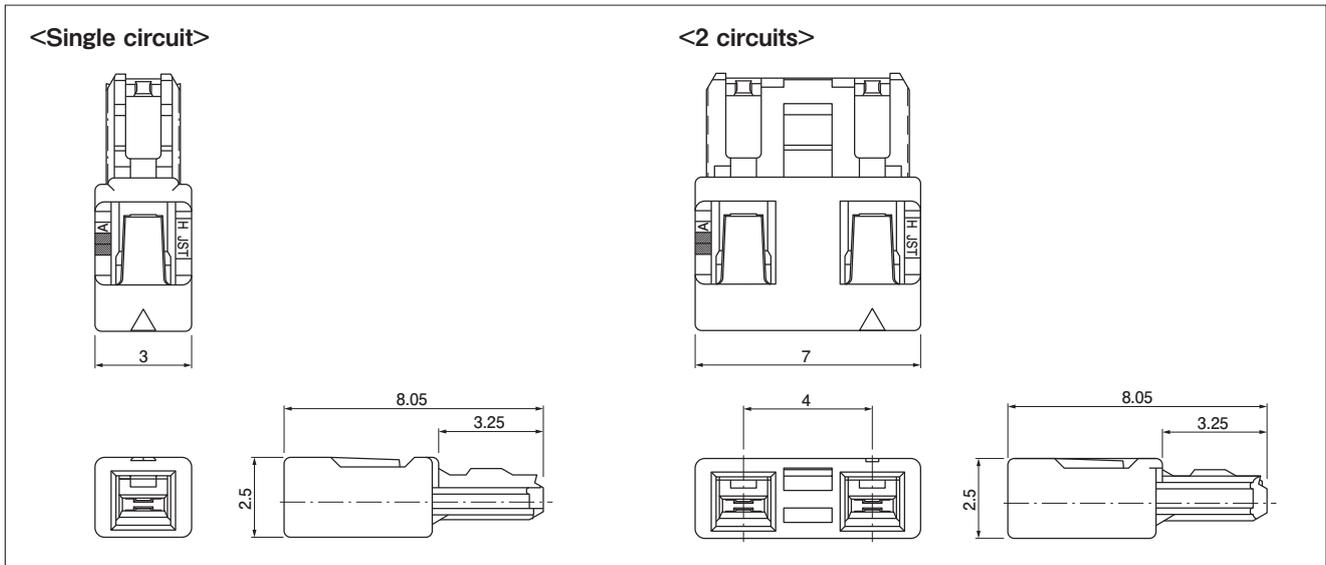
### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SLEB-001T-P0.2	AP-K2N	MKS-L	APLMK SLEB001-02

Note: Contact JST for fully automatic crimping applicator.

# LEB CONNECTOR

## Housing



No. of circuits	Model No.	Q'ty/bag
1	LEBRP-01V-S	2,000
2	LEBRP-02V-S	2,000

Material and Surface finish, etc.  
PBT, UL94V-0, natural

## Model number allocation

### Plug

**01 P - LEB S S - TF**

No. of circuits: 01

Part name: Plug

Series name: LEB

Color: S...White

Sub model number: S

Packaging style: TF...Embossed-taping

### Receptacle

**01 R - LEB S S - TB**

No. of circuits: 01

Part name: Receptacle

Series name: LEB

Color: S...White

Sub model number: S

Packaging style: TB...Embossed-taping

### Contact

**S LEB - 001 T - P 0.2**

Form: S...Strip form

Series name: LEB

Applicable wire range: 001...AWG #26 to AWG #22

Surface finish: T...Tin-plated

Material: P...Copper alloy

Terminal size: 0.2

### Housing

**LEB RP - 02 V - S**

Series name: LEB

Part name: Socket for mating the receptacle

No. of circuits: RP - 02

Flammability: V...UL94V-0

Color: S...Natural