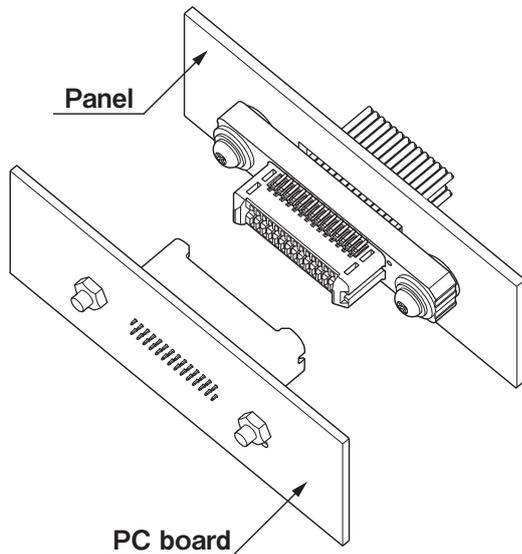


# RTZ CONNECTOR

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



The RTZ connector is a drawer connector with floating mechanism which makes design of equipment easy.

Correspond to the miniaturization of equipment by realizing the downsizing and the space saving with 1.5 mm pitch dual-row and the distance of 19.9 mm at the minimum between board and panel.

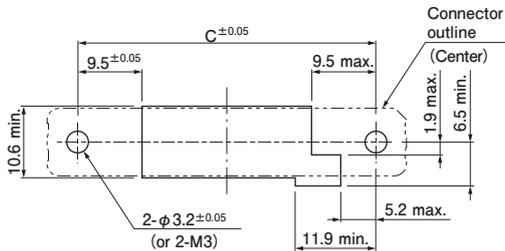
- Floating mechanism  
(Floating amount:  $\pm 1.1$  mm)
- Space saving
- High reliability contact
- Secure the versatility and reliability of the installation by the application of the standard M3 screw.

## ■ Specifications

- Current rating: 2 A AC/DC (AWG #24)
  - Voltage rating: 50 V AC/DC
  - Temperature range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
(including temperature rise in applying electrical current)
  - Contact resistance:
    - Initial value/ 30 m $\Omega$  max.
    - After environmental tests/ 50 m $\Omega$  max.
  - Insulation resistance: 1,000 M $\Omega$  min.
  - Withstanding voltage:
    - There shall be no breakdown or flashover while applying 500 VAC for one minute.
  - Applicable wire range:
    - Conductor size/ AWG #28 to AWG #24
    - Insulation O.D./  $\phi$  0.8 mm to  $\phi$  1.2 mm
  - Applicable PC board thickness: 1.6 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.

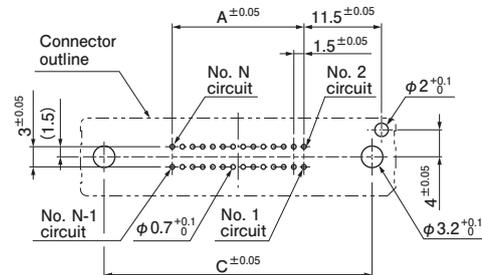
## Panel layout, PC board layout, and Assembly layout

### For receptacle Panel layout



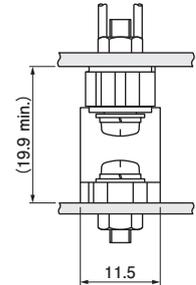
- Note: 1. The figure of panel layout is the figure viewed from the connector mounting side.  
 2. Dimension C: See "Receptacle" section on page 2.  
 3. Make the holes according to the shape and dimensions of the panel layout while suppressing the occurrence of burrs, etc.  
 4. The strength of the panel must be considered when punching two or more holes.

### For plug PC board layout

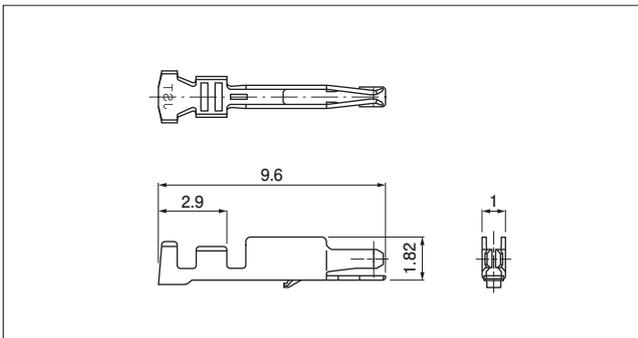


- Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.  
 2. Dimensions A and C: See "Plug" section on page 3.  
 3. Tolerance for the PCB hole pitch shall be  $\pm 0.05$ , and shall not accumulate more than  $\pm 0.05$ .  
 4. Hole dimensions differ according to the type of PC board and piercing method.  
 The above dimensions are reference values.  
 Please contact JST for details.

### Assembly layout



## Receptacle contact



Model No.	Applicable wire range		Q'ty/reel
	Conductor size AWG (mm <sup>2</sup> )	Insulation O.D. (mm)	
SRTZ-002GSA-P0.3	#28 to #24 (0.08 to 0.21)	0.8 to 1.2	15,000

### Material and Surface finish, etc.

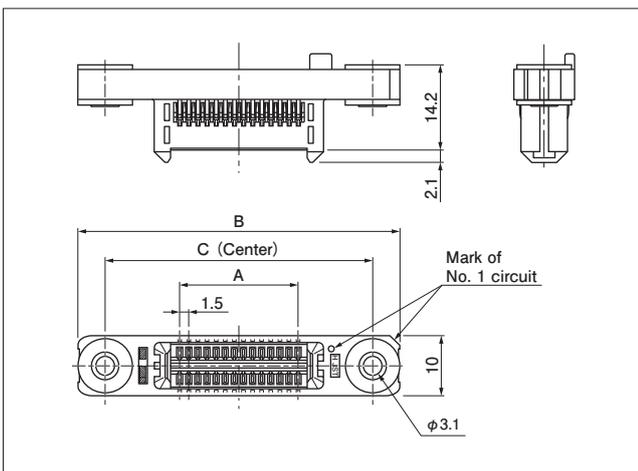
Copper alloy,  
 nickel-undercoated, selective gold-plated  
 Contacting part: gold-plated  
 Crimping part: tin-plated

### Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SRTZ-002GSA-P0.3	AP-K2N	MKS-L	APLMK/SRTZ002-03

Note: Contact JST for fully automatic crimping applicator.

## Receptacle

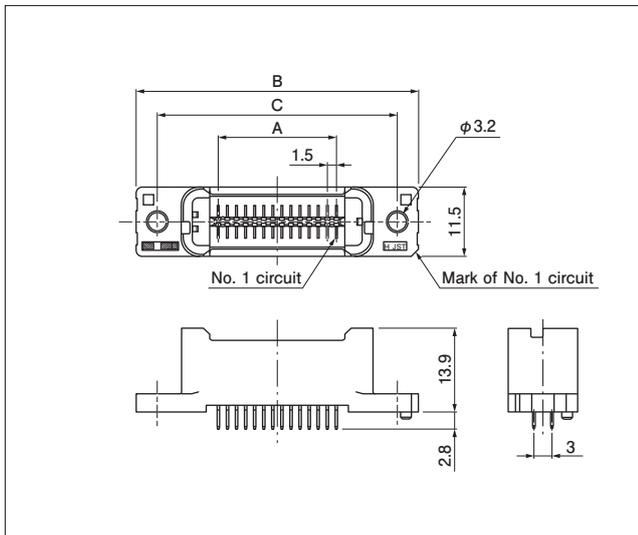


No. of circuits	Model No.	Dimensions (mm)			Q'ty/box
		A	B	C	
4	RTZR-04V-K-FB	—	35.0	26.0	1,512
16	RTZR-16V-K-FB	10.5	44.0	35.0	1,296
20	RTZR-20V-K-FB	13.5	47.0	38.0	1,080
22	RTZR-22V-K-FB	15.0	48.5	39.5	1,080
28	RTZR-28V-K-FB	19.5	53.0	44.0	1,080
36	RTZR-36V-K-FB	25.5	59.0	50.0	864

### Material and Surface finish, etc.

Washer, Floating rivet: Copper alloy, nickel-plated  
 Receptacle housing: PBT (Glass-filled), UL94V-0, black

## Plug



No. of circuits	Model No.	Dimensions (mm)			Q'ty/box
		A	B	C	
4	RTZP-04V-K1GSA	—	28.7	21.7	2,016
16	RTZP-16V-K1GSA	10.5	37.7	30.7	1,568
20	RTZP-20V-K1GSA	13.5	40.7	33.7	1,344
22	RTZP-22V-K1GSA	15.0	42.2	35.2	1,344
28	RTZP-28V-K1GSA	19.5	46.7	39.7	1,344
36	RTZP-36V-K1GSA	25.5	52.7	45.7	1,120

### Material and Surface finish, etc.

Plug contact: Copper alloy,  
 nickel-undercoated selective gold-plated  
 Contacting part: gold-plated  
 Soldering part: tin-plated  
 Plug housing: PBT (Glass-filled), UL94V-0, black

## Model number allocation

### Receptacle contact

S RTZ - 002 GSA - P 0.3

Supply form: Strip form

Series name

Applicable wire range: AWG #28 to AWG #24

Surface finish:

Nickel-undercoated, selective gold-plated

Material: Copper alloy

Applicable contact size

### Receptacle

RTZ R - 28 V - K - FB

Series name

Type: Receptacle

No. of circuits

Flammability: UL94V-0

Color: Black

Panel mounting arrangement: Floating bush

### Plug

RTZ P - 28 V - K 1 GSA

Series name

Type: Plug

No. of circuits

Flammability: UL94V-0

Color: Black

Contact material: Copper alloy

Surface finish: Nickel-undercoated, selective gold-plated