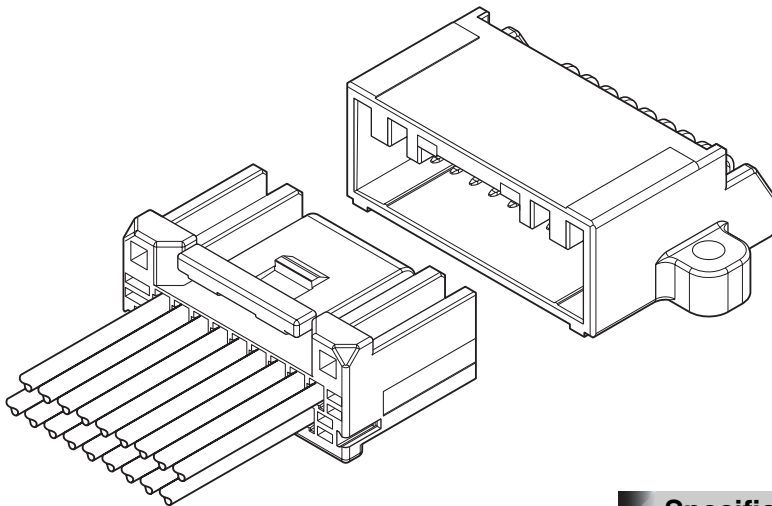


### Features

#### ● Miniaturization and Low profile

0.50 terminal with 2.0mm(W)X2.5mm(H) pitch is realized miniaturization and low profile.

Developed in pursuit of miniaturization and low profile as surface mounting type connector for automotive.  
0.50 terminal with 2.0mm pitch realized miniaturization.

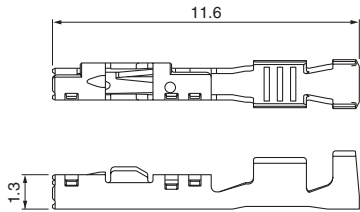


### Specifications

- Current rating: 2 A AC, DC (0.3 mm<sup>2</sup>)
- Voltage rating: 14 V AC, DC
- Temperature range: -40°C to +125°C (gold-plated)  
-40°C to +105°C (tin-plated)  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 30 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: AESSX 0.3 mm<sup>2</sup>, UL3265 0.3 mm<sup>2</sup>  
(Equivalent to AWG #22, Insulation O.D. φ1.5 mm max.)

- \* Compliant with ELV/RoHS.
- \* Contact JST for details.

## Female terminal



Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm <sup>2</sup> )	Insulation O.D. (mm)	
① SMEC-A021GF-M0.5	0.3	1.5 max.	10,000
② SMEC-A021T-M0.5			

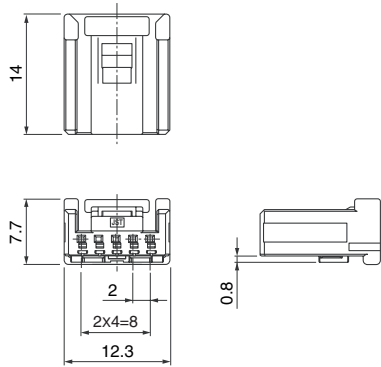
### Material and Finish

- ① Copper alloy, nickel-undercoated, Contact area; gold-plated  
Barrel area; tin-plated
- ② Copper alloy, nickel-undercoated, tin-plated

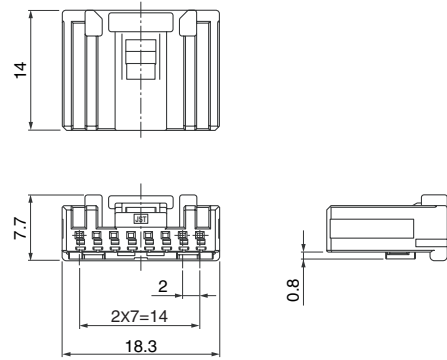
## Female connector

### Single row

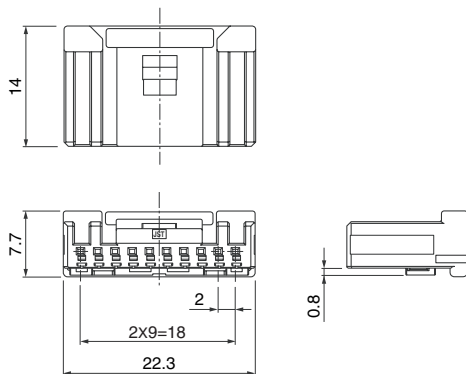
#### • 5 circuits



#### • 8 circuits



#### • 10 circuits



Type	Circuits	Model No.	Q'ty/box
Single row	5	<b>05MEC-B-1A</b>	400
	8	<b>08MEC-B-1A</b>	300
	10	<b>10MEC-B-1A</b>	200

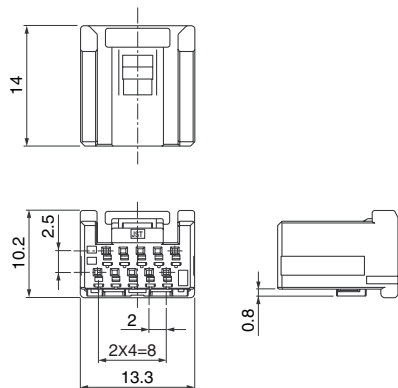
### Material

Housing: Glass-filled PBT, black  
Retainer: Glass-filled PBT, blue

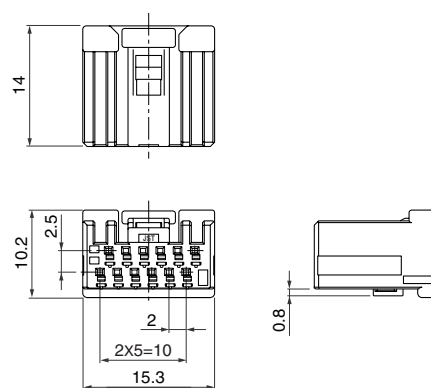
## Female connector

### Double row

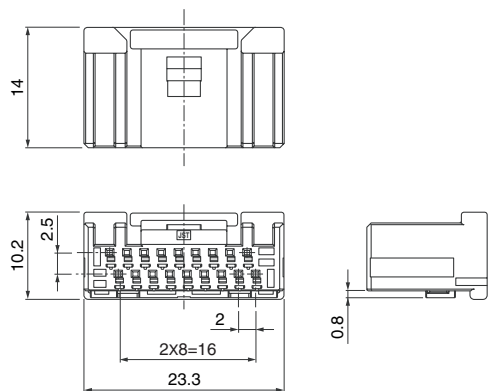
#### • 10 circuits



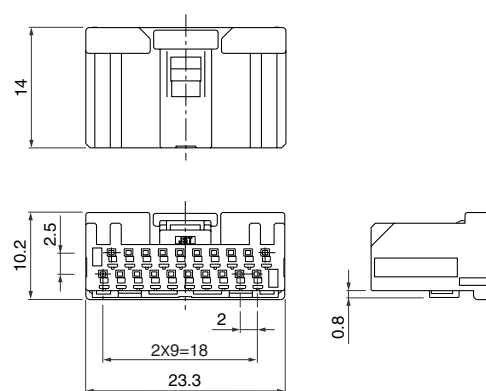
#### • 12 circuits



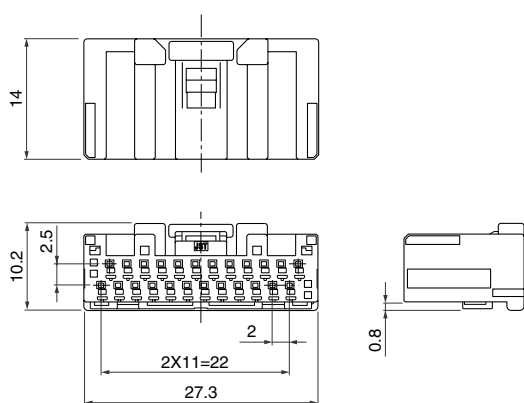
#### • 18 circuits



#### • 20 circuits



#### • 24 circuits



Type	Circuits	Model No.	Q'ty/box
Double row	10	① 10MEC-B-2A	250
	12	① 12MEC-B-2A	200
	18	① 18MEC-B-2A	150
	20	Note) ② 20MEC-B-2A ( )	150
	24	① 24MEC-B-2A	100

#### Material

Housing: Glass-filled PBT, black

Retainer: ① Glass-filled PBT, blue

② Glass-filled PBT, natural (white)

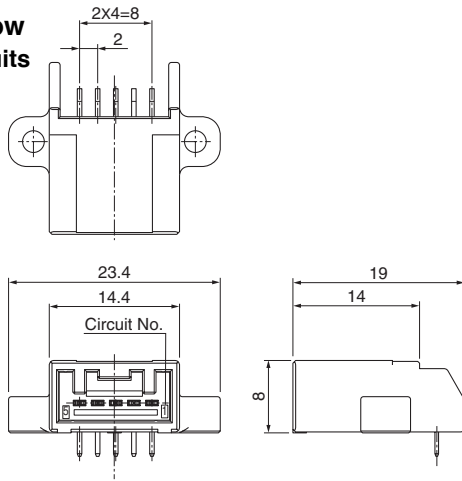
Note: Color/Key codes other than above-mentioned housing are also available.  
Contact JST for details.

## Male connector

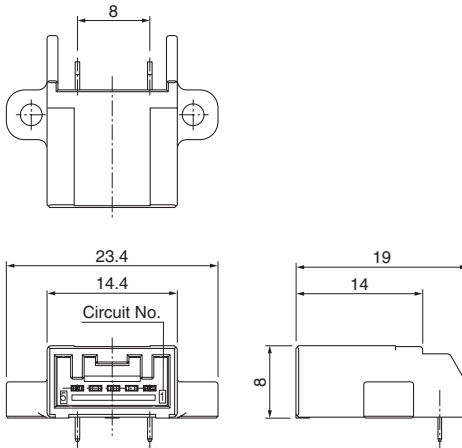
### DIP type

#### Single row

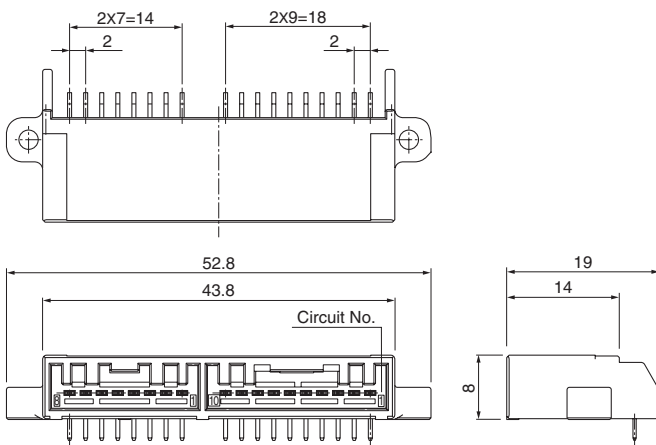
- 5 circuits



- 5 circuits (plugged up)

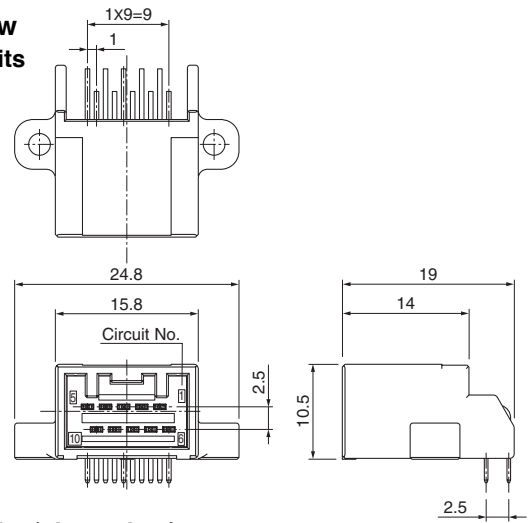


- 18 (10+8) circuits

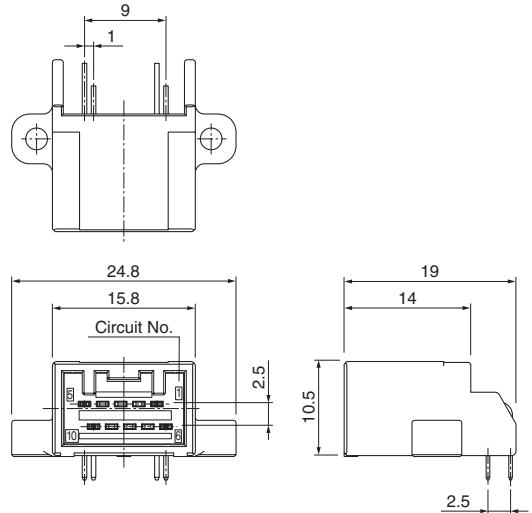


#### Double row

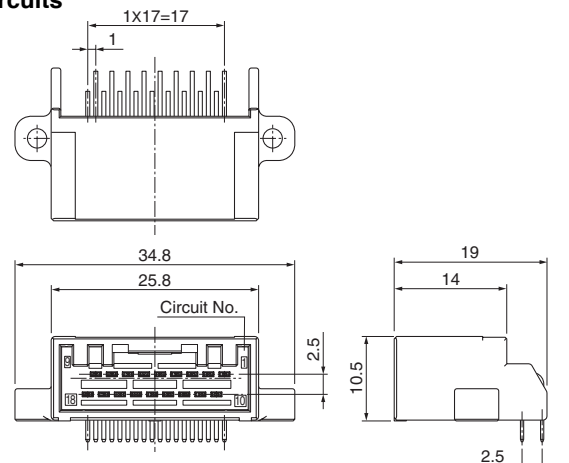
- 10 circuits



- 10 circuits (plugged up)



- 18 circuits



Type	Circuits	Model No.	Q'ty/box
Single row	5	<b>S05B-MECK-1GA-A</b>	700
	5	Note) <b>S05B-MECK-1GA-B</b>	700
	18 (10+8)	<b>S18B-MECK-1GA-A</b>	350

#### Material and Finish

Housing: Glass-filled PBT, black  
Terminal: Copper alloy, nickel-undercoated,  
Contact area; gold-plated  
Barrel area; tin-plated (reflow treatment)

Type	Circuits	Model No.	Q'ty/box
Double row	10	<b>S10B-MECK-2GA-A</b>	504
	10	Note) <b>S10B-MECK-2GA-B</b>	504
	18	<b>S18B-MECK-2GA-A</b>	392

#### Material and Finish

Housing: Glass-filled PBT, black  
Terminal: Copper alloy, nickel-undercoated,  
Contact area; gold-plated  
Barrel area; tin-plated (reflow treatment)

Note: Plugged up

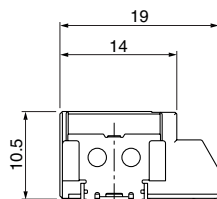
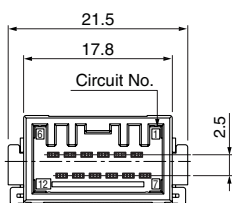
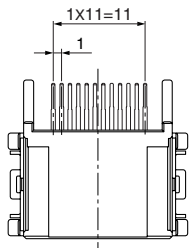
Note: Plugged up

## Male connector

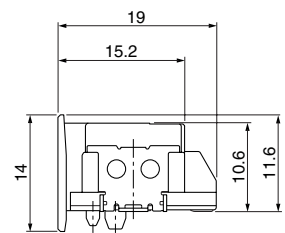
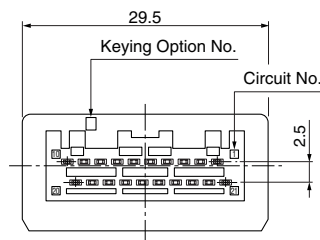
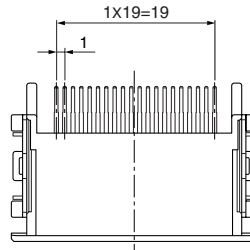
### SMT type

#### Double row

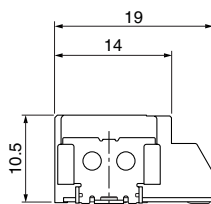
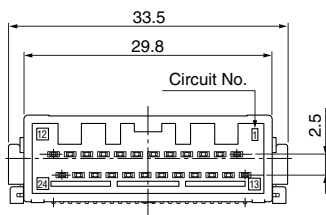
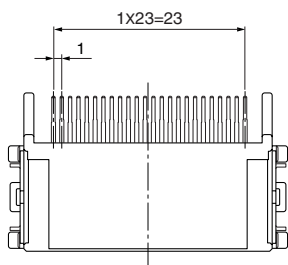
##### ● 12 circuits



##### ● 20 circuits



##### ● 24 circuits



Type	Circuits	Model No.	Q'ty/box
Double row	12	① SM12B-MECK-2GA-A-TB	200
	20	Note) ② SM20B-MECK-2TC( )-A-TB	200
	24	② SM24B-MECK-2TA-A-TB	200

#### Material and Finish

Housing: Glass-filled LCD, black

Terminal: ① Copper alloy, nickel-undercoated

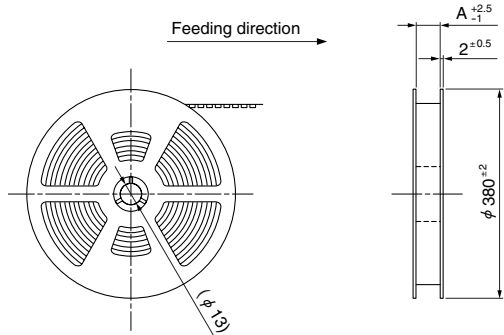
Contact area; gold-plated

Barrel area; tin-plated (reflow treatment)

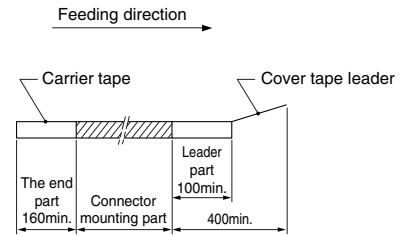
② Copper alloy, nickel-undercoated, tin-plated

Note: Color/Key codes other than above-mentioned housing are also available.  
Contact JST for details.

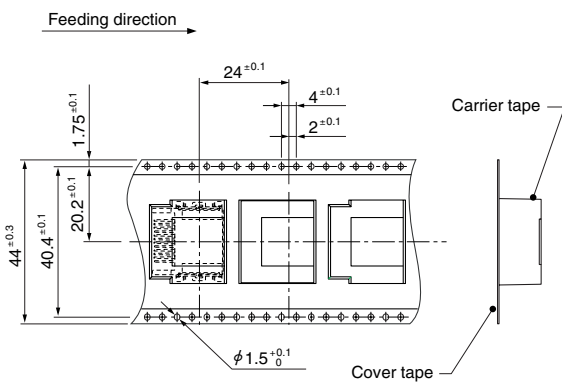
## Taping specifications



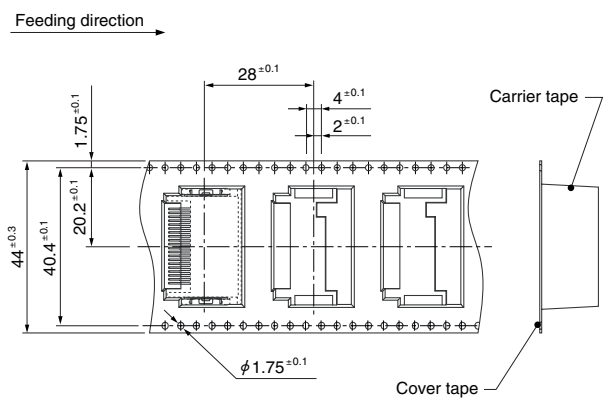
Circuits	A
12	45
20	45
24	57



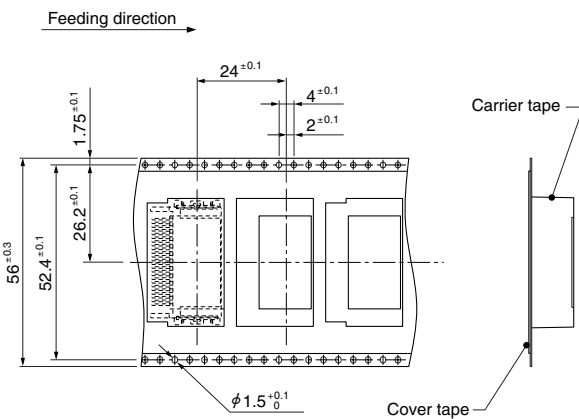
### • 12 circuits



### • 20 circuits



### • 24 circuits

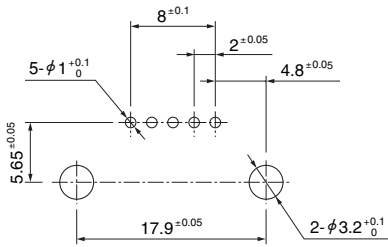


## PC board layout, Assembly layout

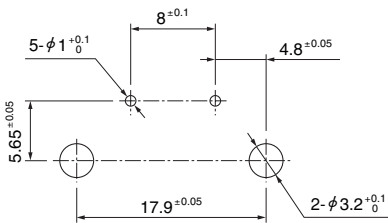
### DIP type

#### Single row

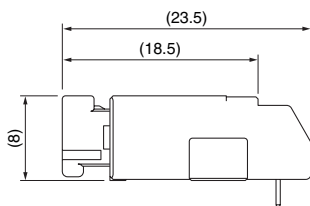
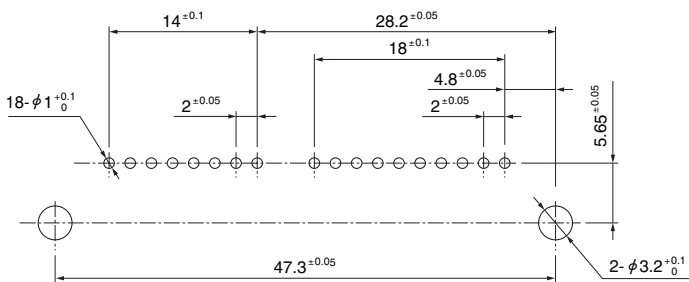
- 5 circuits



- 5 circuits (plugged up)

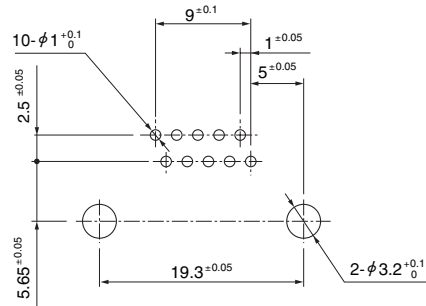


- 18 (10+8) circuits

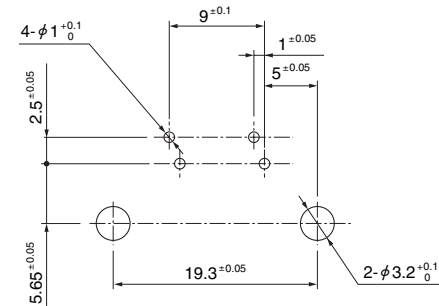


#### Double row

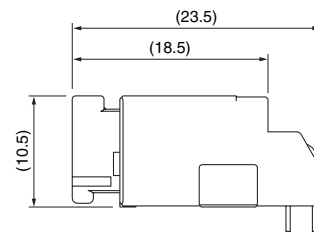
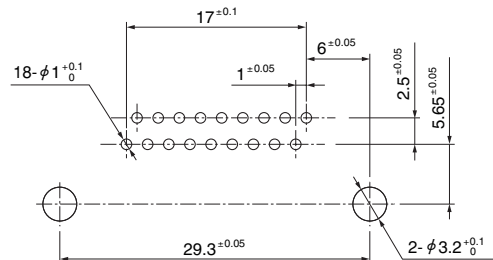
- 10 circuits



- 10 circuits (plugged up)



- 18 circuits



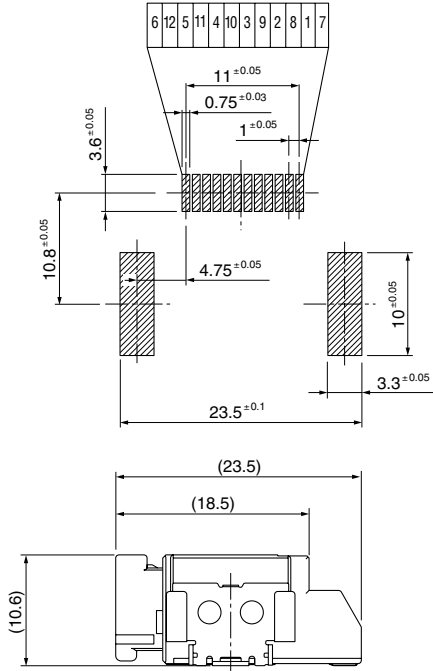
Note: 1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}$  for all centers.  
 2. Hole dimensions differ according to the type of PC board and piercing method.  
 The dimensions above should serve as guideline. Contact JST for details.

## PC board layout, Assembly layout

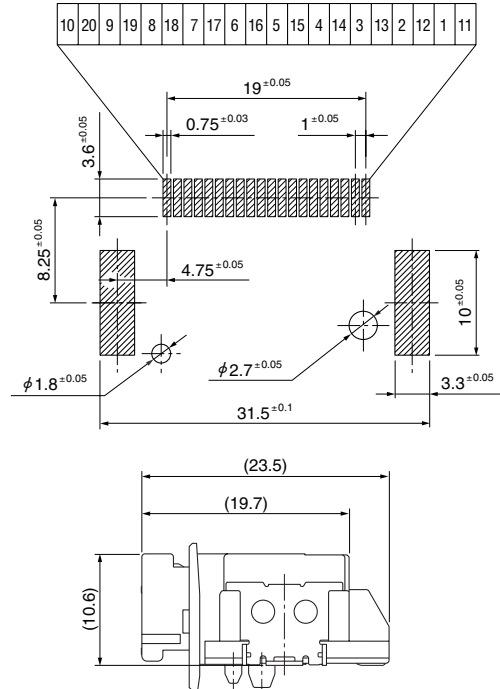
### SMT type

#### Double row

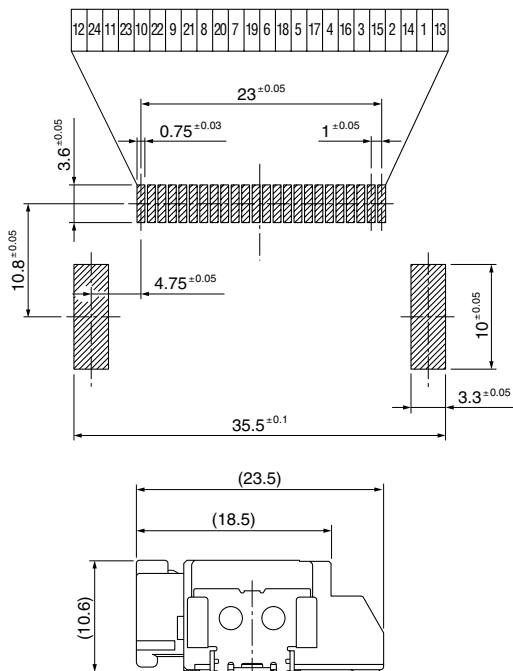
##### • 12 circuits



##### • 20 circuits



##### • 24 circuits



Note: Tolerances are non-cumulative:  $\pm 0.05\text{mm}$  for all centers.  
The dimensions above should serve as guideline. Contact JST for details.

## Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SMEC-A021GF-M0.5	AP-K2N	MK/SMEC-A021-05	APLMK SMEC-A021-05
SMEC-A021T-M0.5			

Note: When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.