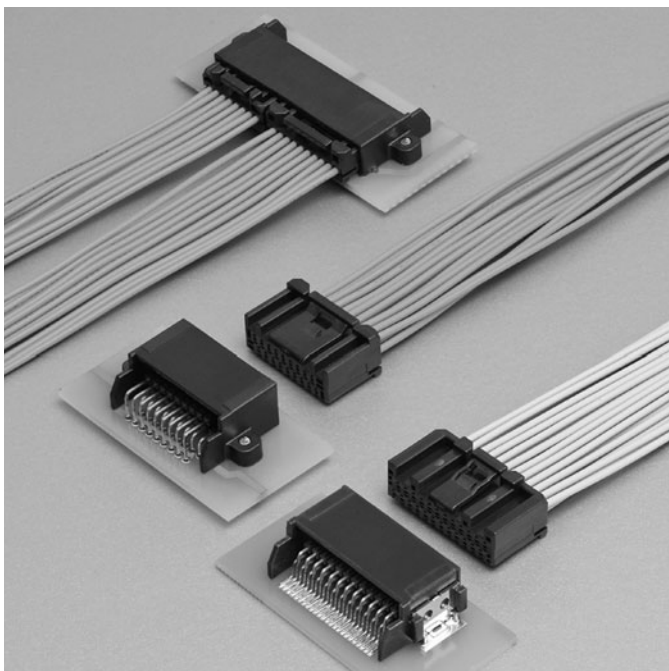


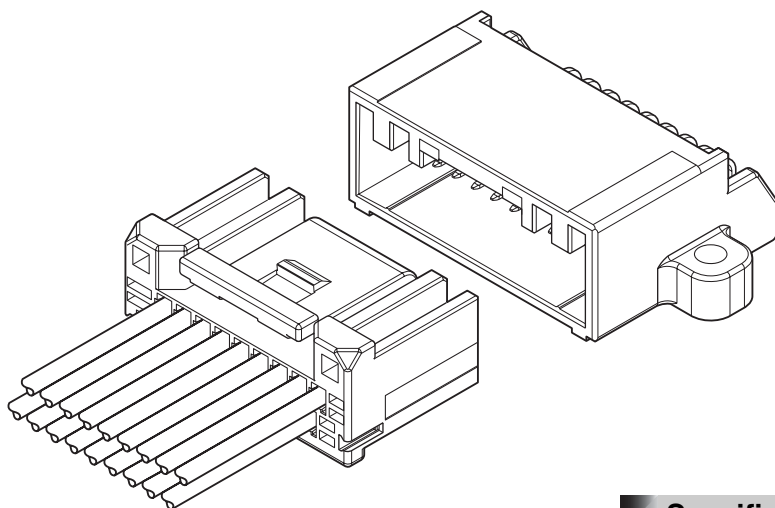


### Features

#### ● 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.

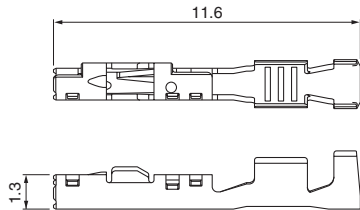


### Specifications

- Current rating: 2A AC, DC (0.3mm<sup>2</sup>)
- Voltage rating: 14V 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/10mΩ max.  
After environmental testing/30mΩ max.
- Insulation resistance: 100MΩ min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AESSX 0.3mm<sup>2</sup>, UL3265 0.3mm<sup>2</sup>  
(Equivalent to AWG #22, Insulation O.D. φ1.5mm 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  |                              |                      |           |

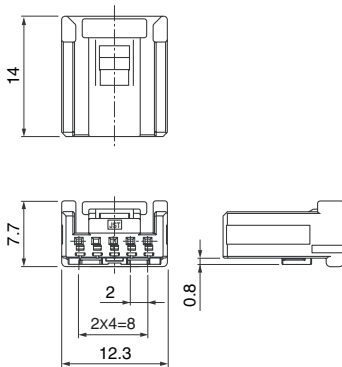
### Material and Finish

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

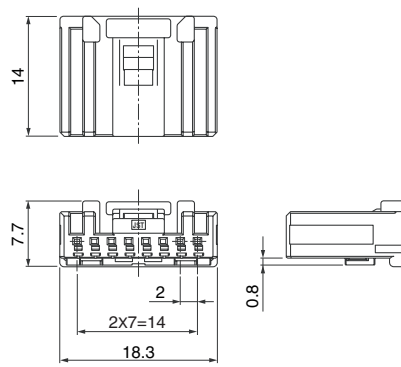
## Female connector

### Single row

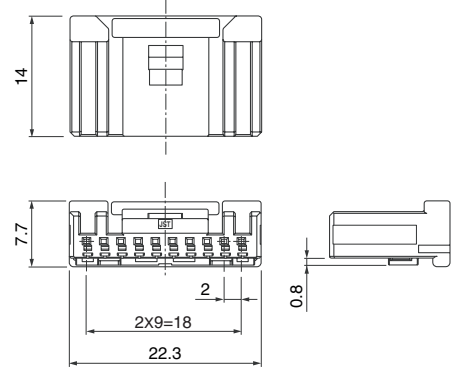
#### ● 5 circuits



#### ● 8 circuits

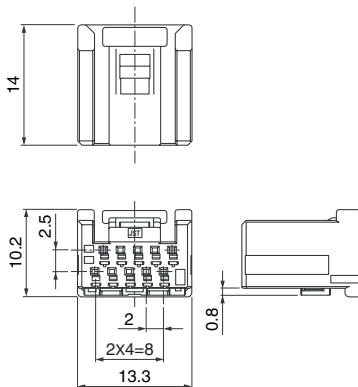


#### ● 10 circuits

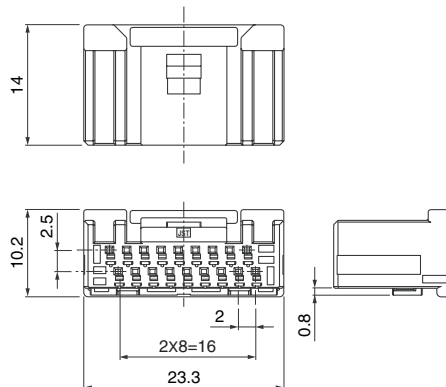


### Double row

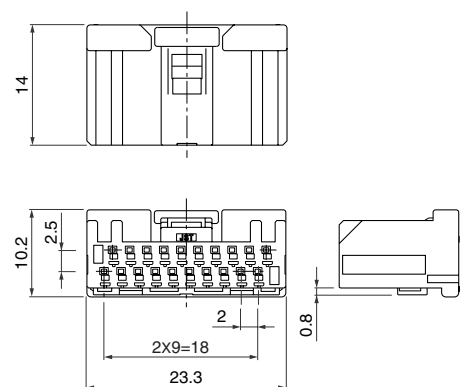
#### ● 10 circuits



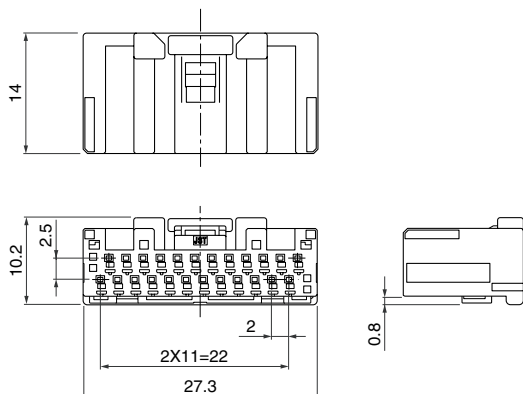
#### ● 18 circuits



#### ● 20 circuits



#### ● 24 circuits



| Type       | Circuits | Model No.             | Q'ty/box |
|------------|----------|-----------------------|----------|
| Single row | 5        | ① 05MEC-B-1A          | 400      |
|            | 8        | ① 08MEC-B-1A          | 300      |
|            | 10       | ① 10MEC-B-1A          | 200      |
| Double row | 10       | ① 10MEC-B-2A          | 250      |
|            | 18       | ① 18MEC-B-2A          | 150      |
|            | 20       | Note) ② 20MEC-B-2A( ) | 150      |
|            | 24       | ① 24MEC-B-2A          | 90       |

### Material

Housing: Glass-filled PBT, black  
Retainer: ① Glass-filled PBT, blue  
② Glass-filled PBT, natural (white)

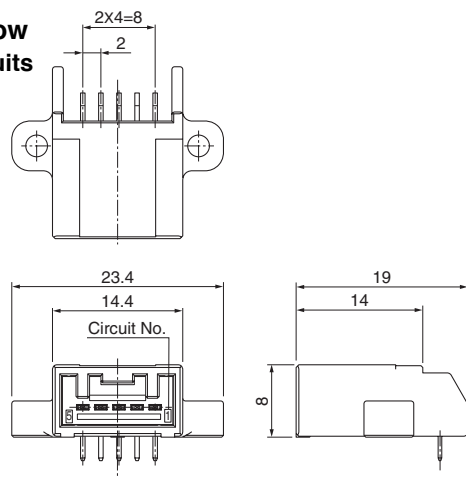
Note: Color/Key codes other than above-mentioned housing are also available.  
Contact JST for details.

## Male connector

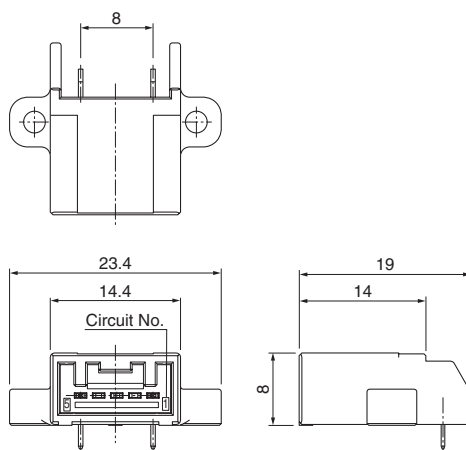
### DIP type

#### Single row

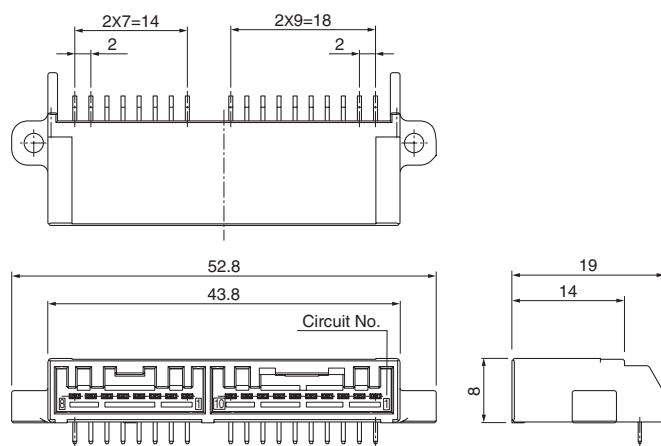
##### • 5 circuits



##### • 5 circuits (plugged up)

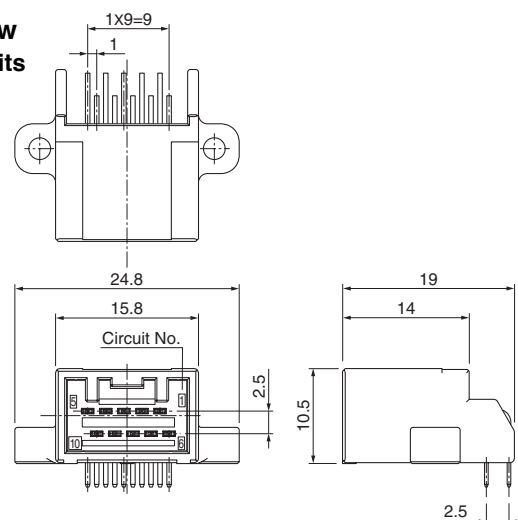


##### • 18 (10+8) circuits

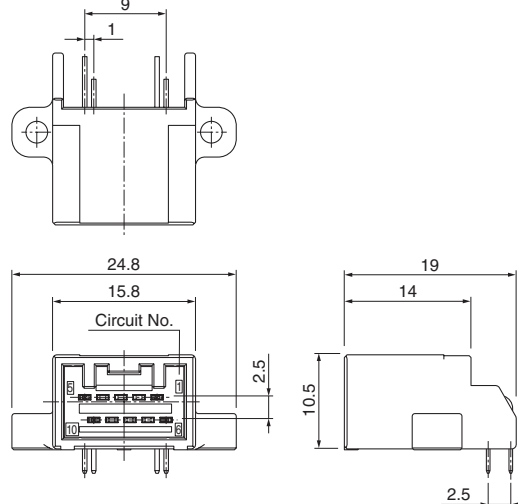


#### Double row

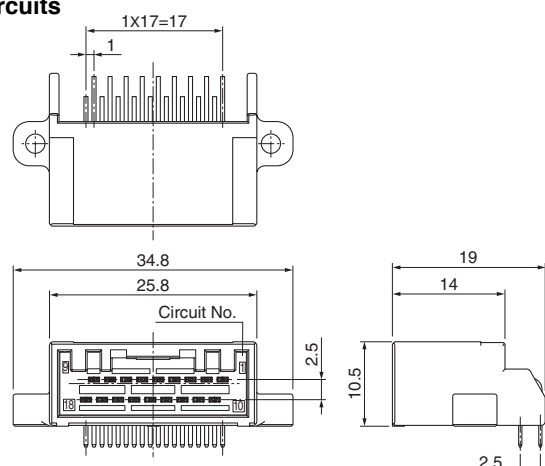
##### • 10 circuits



##### • 10 circuits (plugged up)



##### • 18 circuits



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

#### Material and Finish

Male housing: Glass-filled PBT, black  
 Male 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      |
|            | Note) 10 | <b>S10B-MECK-2GA-B</b> | 504      |
|            | 18       | <b>S18B-MECK-2GA-A</b> | 392      |

#### Material and Finish

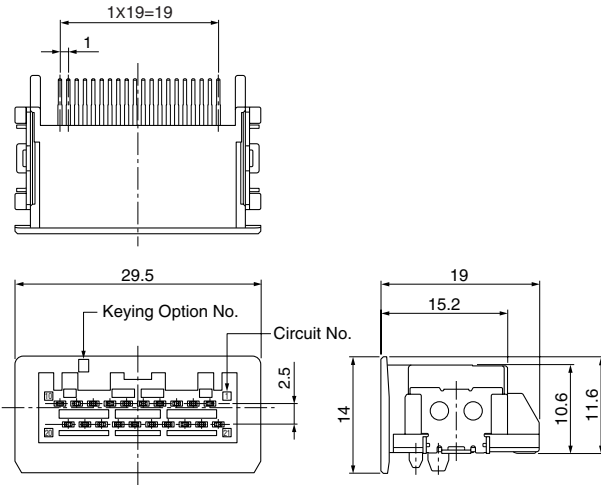
Male housing: Glass-filled PBT, black  
 Male terminal: Copper alloy, nickel-undercoated,  
 Contact area; gold-plated  
 Barrel area; tin-plated (reflow treatment)

## Male connector

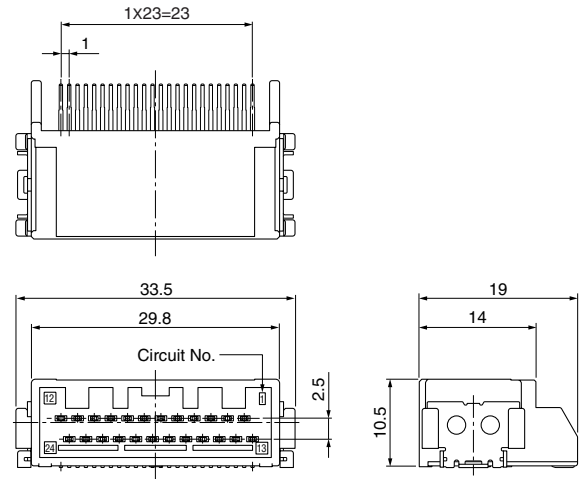
### SMT type

#### Double row

##### • 20 circuits



##### • 24 circuits



| Type       | Circuits | Model No.                           | Q'ty/box |
|------------|----------|-------------------------------------|----------|
| Double row | 20       | Note) <b>SM20B-MECK-2TC( )-A-TB</b> | 200      |
|            | 24       | <b>SM24B-MECK-2TA-A-TB</b>          | 200      |

#### Material and Finish

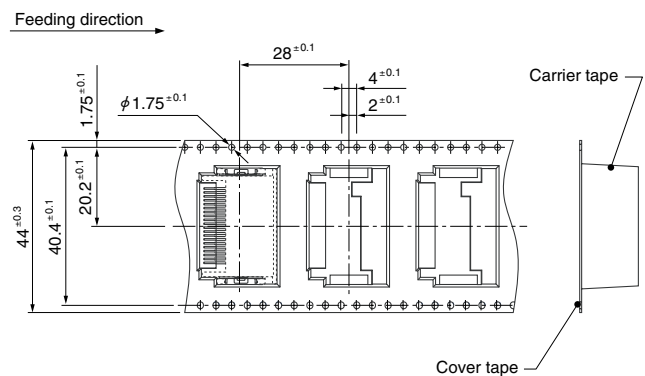
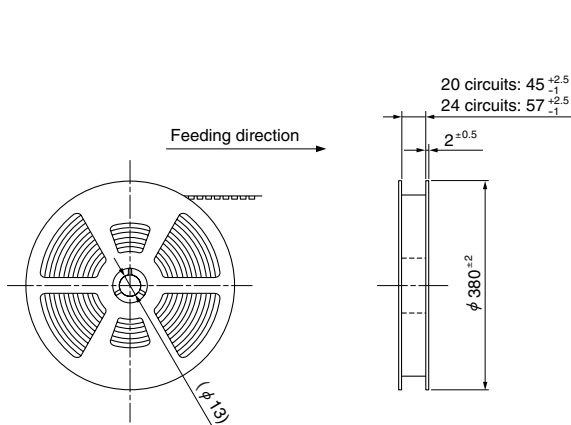
Housing: Glass-filled LCP, black

Terminal: Copper alloy, nickel-undercoated, tin-plated

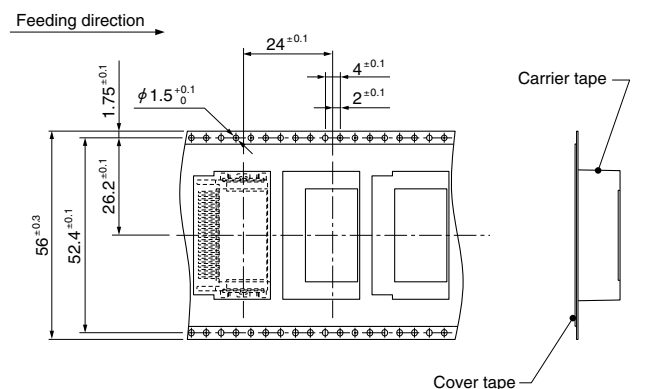
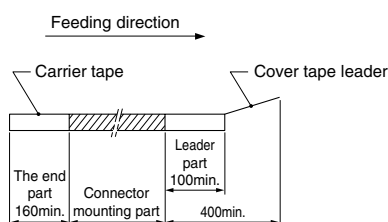
Note: Key codes other than above-mentioned housing are also available.  
Contact JST for details.

## Taping specifications

### 20 circuits



### 24 circuits

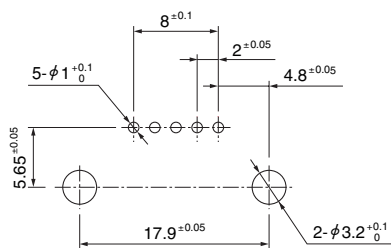


## PC board layout, Assembly layout

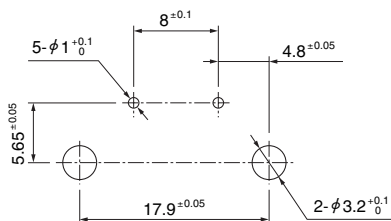
### DIP type

#### Single row

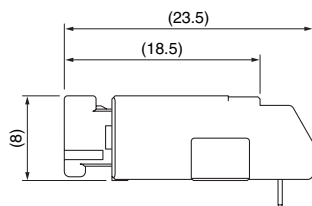
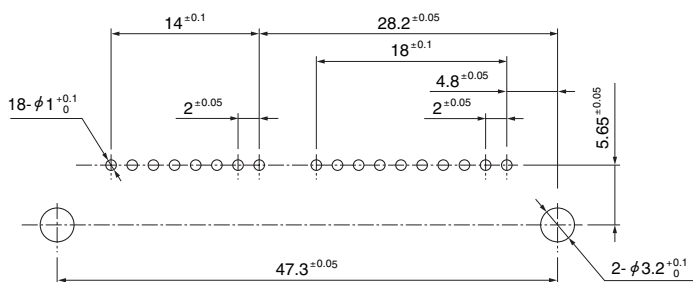
##### • 5 circuits



##### • 5 circuits (plugged up)

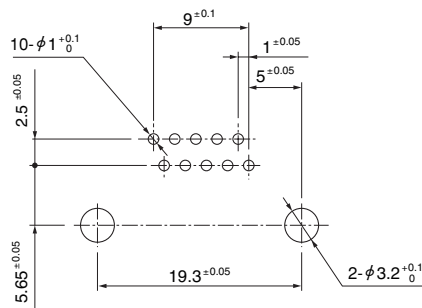


##### • 18 (10+8) circuits

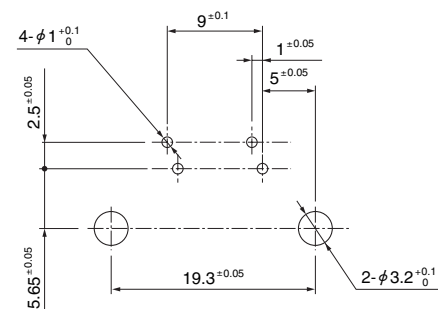


#### Double row

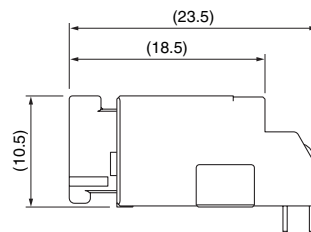
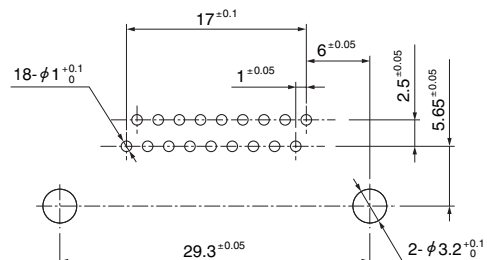
##### • 10 circuits



##### • 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.

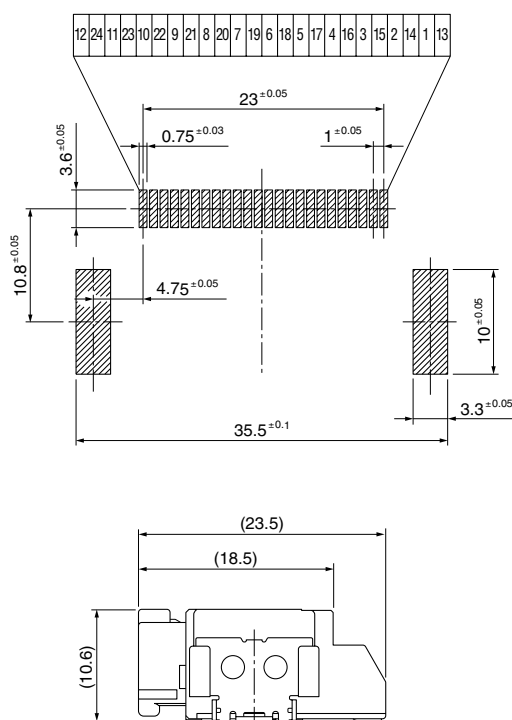
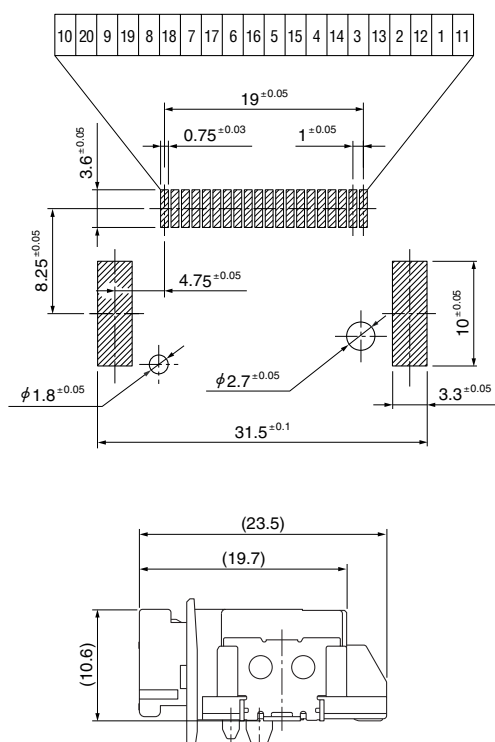
## PC board layout, Assembly layout

### SMT type

#### Double row

● 20 circuits

● 24 circuits



## 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.

# Mouser Electronics

Authorized Distributor

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[SMEC-A021GF-M0.5](#) [05MEC-B-1A](#) [08MEC-B-1A](#) [S10B-MECK-2GA-B](#)



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Электрон  
Связь**

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