

## BM55 Series

# 0.3mm Pitch, 0.5 to 0.8mm Stacking Height, 1.5mm Depth Ultra Compact, Hybrid, FPC-to-Board Connector



This product was selected as a  
**CES  
Innovation  
Awards  
Honoree**



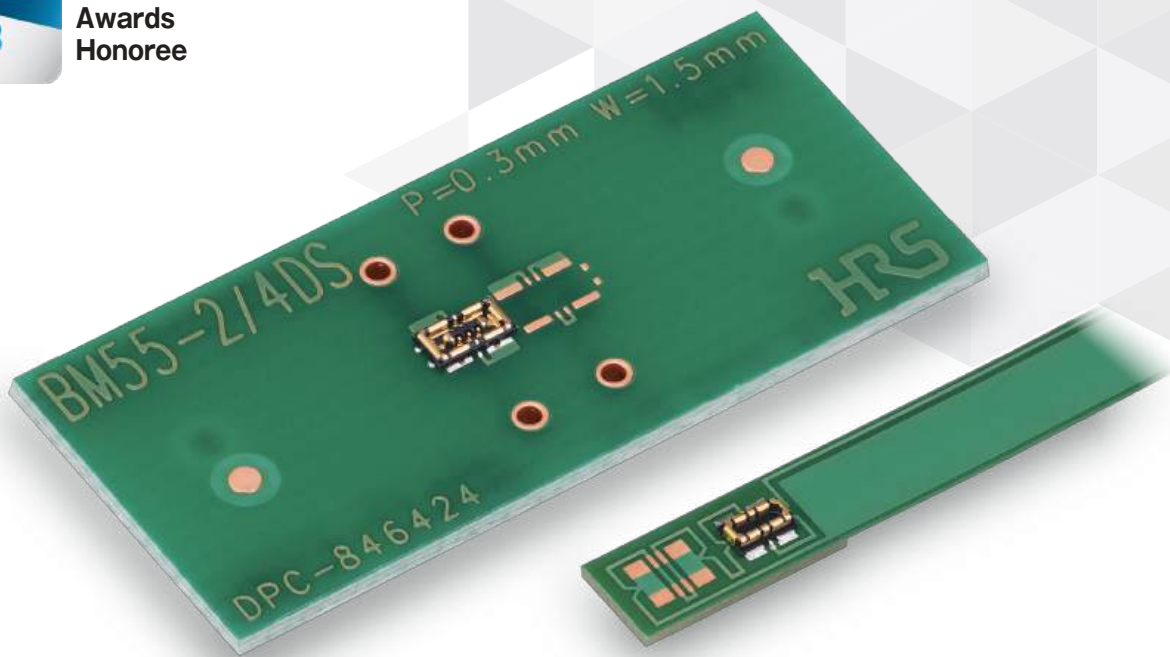
P= 0.3mm



Full Armored



High-Current



The CES Innovation Awards are based upon descriptive materials submitted to the judges.  
CTA did not verify the accuracy of any submission or of any claims made and did not test the item to which the award was given.



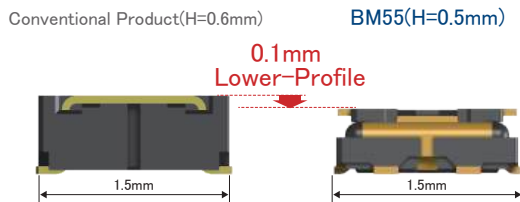
Product page  
<https://www.hirose.com/en/product/series/BM55>

# Features

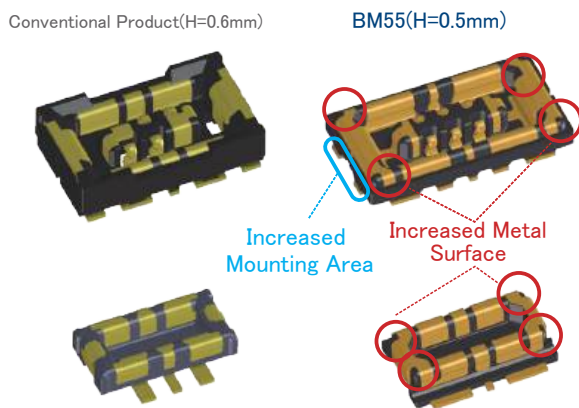
## 1. Low-profile, Space-saving and High-strength Design

While height decreases from 0.6mm to 0.5mm, the strength increases by increasing the metal surface on the mating surface side and mounting area compared to ultra compact conventional product.

A lower-profile design with H=0.5mm than the conventional product.



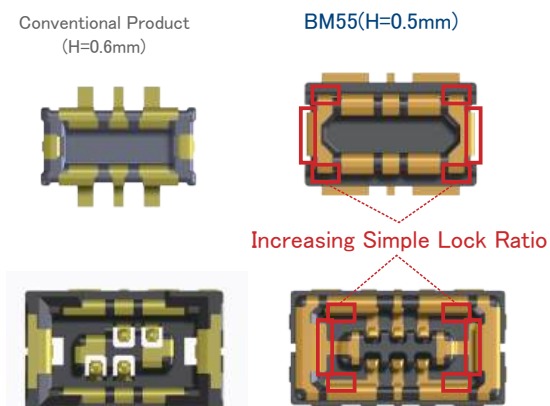
High-strength design by increasing mounting area and metal surface.



## 2. Compact, High Extraction Force and Clear Tactile Click

Compact and high extraction force by increasing metal surface in spite of decreasing the height.

High extraction force and clear tactile click by increasing simple lock area.



\*Power contact locks of 2pos. plug only cover all four corners.

The four corners of connectors with more than 4 positions are also covered with metal.

### 3. Halogen-free

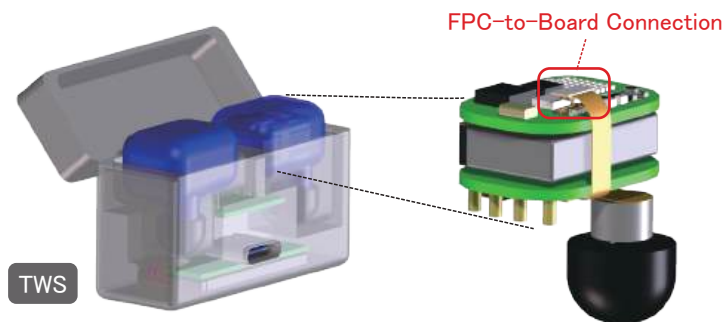
No chlorine or bromine exceeding the standard value is used in the connector.

\*In accordance with IEC 61249-2-21

Br: 900ppm max., Cl: 900ppm max., Br+Cl: 1500ppm max.

## Applications

Devices that require low-profile, compact design such as wearable terminals (Smartphones, Smartwatches, TWS).



Used for the internal connection of small mobile devices such as TWS, Smartwatches and Smartphones.

## Product Specifications

|               |                                                                                                                                                                 |                                         |               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------|
| Rated Current | Power Contact: 5A, Signal Contact: 0.3A(2pos.)<br>Power Contact: 4A, Signal Contact: 0.3A(4 to 16pos.)<br>Power Contact: 3A, Signal Contact: 0.3A(18 to 30pos.) | Operating Temperature (Note 1)          | -55 to + 85°C |
| Rated Voltage | 30V AC/DC                                                                                                                                                       | Operating Humidity Range (Note 2)       | 90%RH Max.    |
|               |                                                                                                                                                                 | Storage Temperature (Note 3)            | -10 to + 60°C |
|               |                                                                                                                                                                 | Storage Humidity Range (Note 2)(Note 3) | 90%RH Max.    |

| Item                   | Specifications                                                                                                 | Conditions                                                                                                           |
|------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Contact Resistance     | Signal Contact: 50m Ω Max.<br>Power Contact: 30m Ω Max.                                                        | Measured at 20mV AC, 1kHz, 1mA                                                                                       |
| Insulation Resistance  | 50M Ω Min.                                                                                                     | Measured at 100V DC                                                                                                  |
| Withstand Voltage      | No Flashover or Breakdown                                                                                      | 150V AC for 1 min.                                                                                                   |
| Mating Durability      | Contact Resistance: Signal Contact 50m Ω Max.<br>Power Contact 30m Ω Max.                                      | 10 times                                                                                                             |
| Vibration Resistance   | No electrical discontinuity for more than 1 μ s.                                                               | Frequency 10 to 55Hz<br>single amplitude of 0.75mm<br>10 cycles in each of 3 axis directions for 5 minutes/<br>cycle |
| Moisture Resistance    | Contact Resistance: Signal Contact 50m Ω Max.<br>Power Contact 30m Ω Max.<br>Insulation Resistance: 25M Ω Min. | 96 hours at temperature of 40 ± 2°C and<br>humidity range from 90 to 95%RH                                           |
| Temperature Cycles     | Contact Resistance: Signal Contact 50m Ω Max.<br>Power Contact 30m Ω Max.<br>Insulation Resistance: 50M Ω Min. | -55°C for 30min. → +85°C for 30 min. for 5 Cycles<br>(Tank transfer time: within 2 to 3 min.)                        |
| Solder Heat Resistance | No dissolution or resin melting<br>that will affect performance.                                               | Reflow: At recommended temperature profile<br>Hand Soldering: 350°C within 3 sec.                                    |

Note 1: Includes the temperature rise due to current flow.

Note 2: Use without condensation.

Note 3: Storage refers to long-term storage of unused items before they are mounted on the PCB.  
Operating temperature and humidity range apply when the product is not powered after PCB  
mounting and when temporarily stored during transportation.

Note 4: Information contained in this catalog represents general requirements for this Series.  
Contact us for the drawings and specifications for a specific part number shown.

## Material / Finish

| Product            | Component      | Material     | Finish      |
|--------------------|----------------|--------------|-------------|
| Plug<br>Receptacle | Housing        | LCP          | Black       |
|                    | Signal Contact | Copper Alloy | Gold Plated |
|                    | Power Contact  | Copper Alloy | Gold Plated |

## Product Number Structure

Refer to the chart below when determining the product specifications from the product number.  
Please select from the product numbers listed in this catalog when placing orders.

### Receptacle

#### **BM55 # 0.5 - # DS / 2 - 0.3 V (##)**

- ①    ②    ③    ④    ⑤    ⑥    ⑦    ⑧    ⑨

|                             |                                                             |                                        |                                                                                                                            |
|-----------------------------|-------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| ① Series Name               | BM55                                                        | ⑥ No. of Power Contacts                | 2pos.                                                                                                                      |
| ② Shape Type                | R: 2pos. B: Other than 2pos.                                | ⑦ Contact Pitch                        | 0.3mm                                                                                                                      |
| ③ Stacking Height           | 0.5, 0.6, 0.8mm                                             | ⑧ Terminal Design                      | V: Straight SMT                                                                                                            |
| ④ Number of Signal Contacts | H0.5: 2, 10, 12, 14, 26pos.<br>H0.6: 12pos.<br>H0.8: 10pos. | ⑨ Plating Specifications and Packaging | (51): Embossed tape packaging<br>2pos. (30,000pcs per reel)<br>14pos. (25,000pcs per reel)<br>Others: (20,000pcs per reel) |
| ⑤ Connector Type            | DS: Receptacle                                              |                                        |                                                                                                                            |

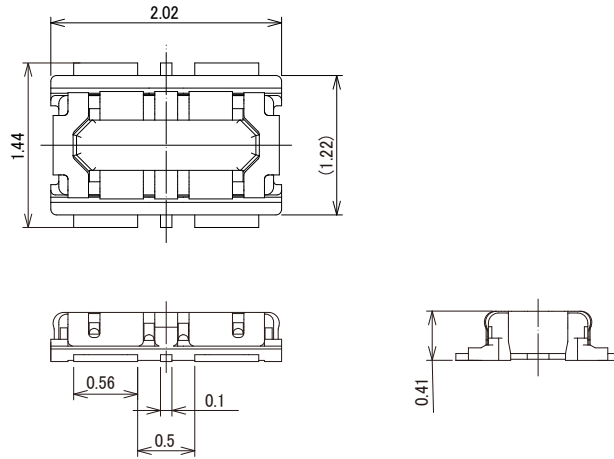
### Plug

#### **BM55 # - # DP 2 - 0.3 V (##)**

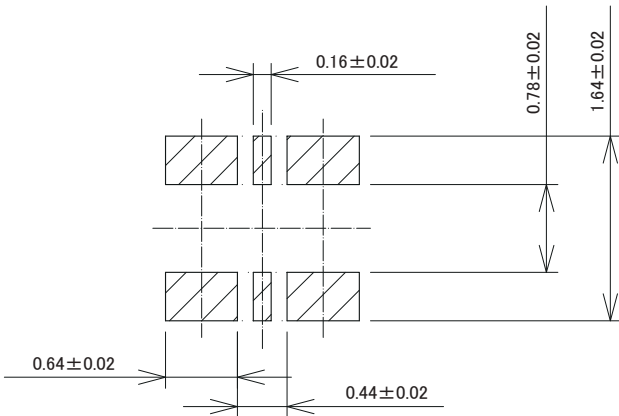
- ①    ②    ③    ④    ⑤    ⑥    ⑦    ⑧

|                             |                                                            |                                        |                                                                                                 |
|-----------------------------|------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|
| ① Series Name               | BM55                                                       | ⑥ No. of Power Contacts                | 2pos.                                                                                           |
| ② Shape Type                | R: 2pos.<br>B: Other than 2pos. and 14pos.<br>B0.5: 14pos. | ⑦ Contact Pitch                        | 0.3mm                                                                                           |
| ④ Number of Signal Contacts | 2, 10, 12, 14, 26pos.<br>*Shared height                    | ⑧ Terminal Design                      | V: Straight SMT                                                                                 |
| ⑤ Connector Type            | DP: Plug                                                   | ⑨ Plating Specifications and Packaging | (51): Embossed tape packaging<br>2, 14pos. (30,000pcs per reel)<br>Others: (20,000pcs per reel) |

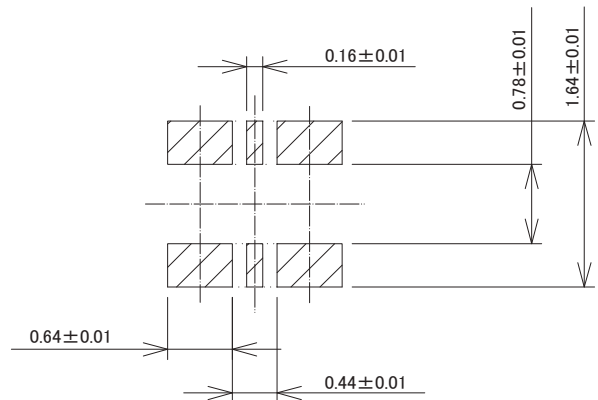
## Plug (2pos)



### ● Recommended PCB Layout



### ● Recommended Metal Mask Dimensions (Mask Thickness: 0.08mm)

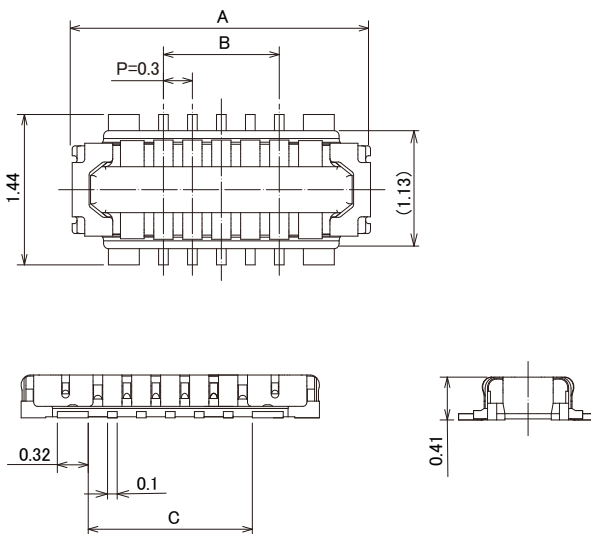


Unit : mm

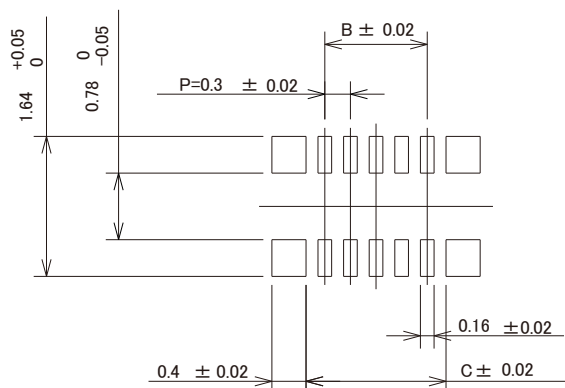
| Part No.             | HRS No.          | No. of Pos. |       | Purchase Unit<br>(##) : (51) | Purchase Unit<br>(##) : (53) |
|----------------------|------------------|-------------|-------|------------------------------|------------------------------|
|                      |                  | Signal      | Power |                              |                              |
| BM55R-2DP/2-0.3V(##) | CL0673-1005-0-## | 2           | 2     | 30,000pcs<br>per reel        | 1,000pcs<br>per reel         |

Note 1: Please order embossed tape packaged items by the reel.  
 Note 2: This connector has no polarity.

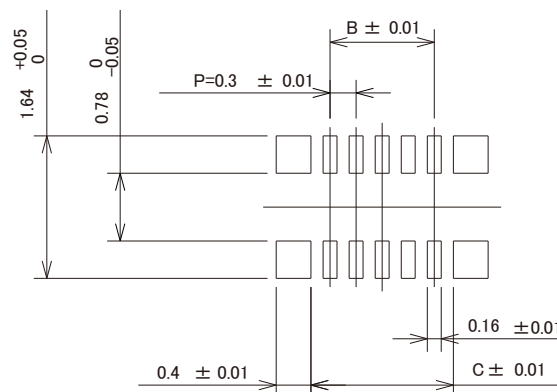
## Plug (4pos. or more)



### ● Recommended PCB Layout



### ● Recommended Metal Mask Dimensions (Mask Thickness: 0.08mm)

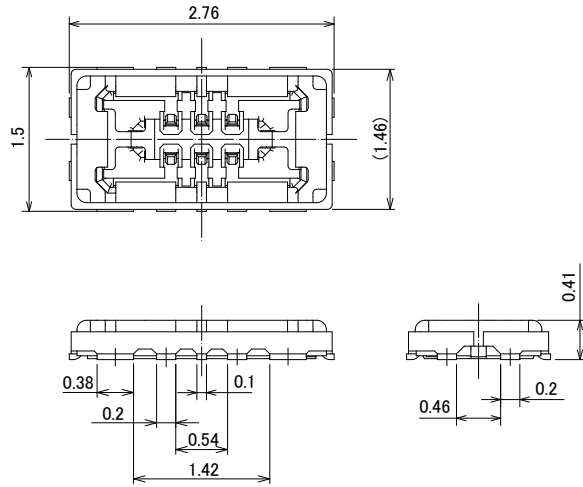


Unit : mm

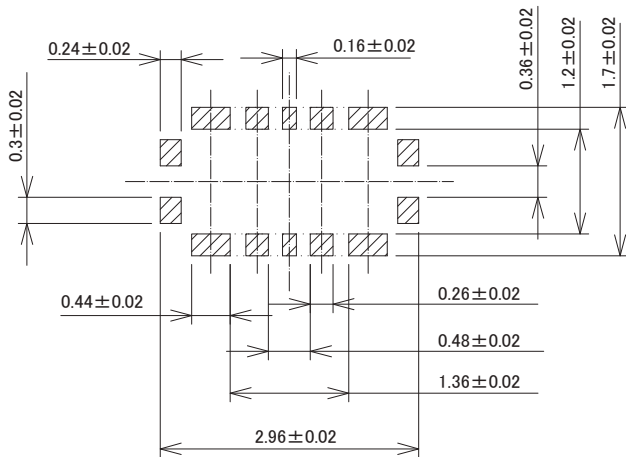
| Part No.                 | HRS No.          | No. of Pos. |       | A    | B   | C   | Purchase Unit<br>(##) : (51) | Purchase Unit<br>(##) : (53) |
|--------------------------|------------------|-------------|-------|------|-----|-----|------------------------------|------------------------------|
|                          |                  | Signal      | Power |      |     |     |                              |                              |
| BM55B-10DP/2-0.3V(##)    | CL0673-7811-0-## | 10          | 2     | 3.09 | 1.2 | 1.7 | 20,000pcs per reel           | 1,000pcs per reel            |
| BM55B-12DP/2-0.3V(##)    | CL0673-0181-0-## | 12          | 2     | 3.39 | 1.5 | 2   | 20,000pcs per reel           | 1,000pcs per reel            |
| BM55B0.5-14DP/2-0.3V(##) | CL0673-7815-0-## | 14          | 2     | 3.69 | 1.8 | 2.3 | 30,000pcs per reel           | 1,000pcs per reel            |
| BM55B-26DP/2-0.3V(##)    | CL0673-7827-0-## | 26          | 2     | 5.49 | 3.6 | 4.1 | 20,000pcs per reel           | 1,000pcs per reel            |

Note 1: Please order embossed tape packaged items by the reel.  
 Note 2: This connector has no polarity.

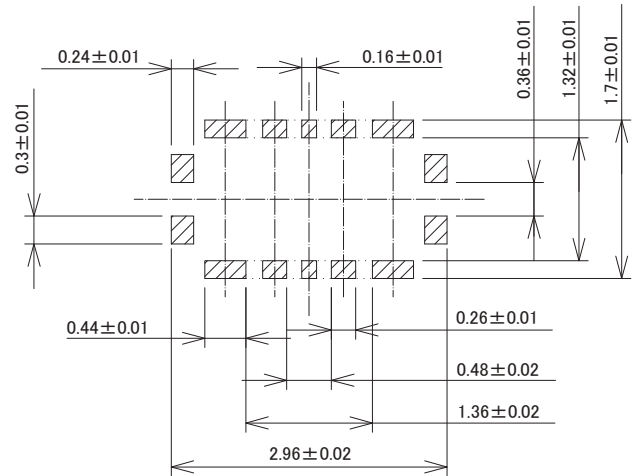
## Receptacle (2pos.)



### Recommended PCB Layout



### Recommended Metal Mask Dimensions (Mask Thickness: 0.08mm)



Unit : mm

| Part No.                | HRS No.          | No. of Pos. |       | Purchase Unit<br>(##): (51) | Purchase Unit<br>(##): (53) |
|-------------------------|------------------|-------------|-------|-----------------------------|-----------------------------|
|                         |                  | Signal      | Power |                             |                             |
| BM55R0.5-2DS/2-0.3V(##) | CL0673-7800-0-## | 2           | 2     | 30,000pcs per reel          | 1,000pcs per reel           |

Note 1: Please order embossed tape packaged items by the reel.  
 Note 2: This connector has no polarity.



### Stacking Height 0.5mm

Unit : mm

| Part No.                 | HRS No.          | No. of Pos. |       | D    | E   | F   | G    | Purchase Unit<br>(##) : (51) | Purchase Unit<br>(##) : (53) |
|--------------------------|------------------|-------------|-------|------|-----|-----|------|------------------------------|------------------------------|
|                          |                  | Signal      | Power |      |     |     |      |                              |                              |
| BM55B0.5-10DS/2-0.3V(##) | CL0480-1271-0-## | 10          | 2     | 3.75 | 1.2 | 1.7 | 2.53 | 20,000pcs per reel           | 1,000pcs per reel            |
| BM55B0.5-12DS/2-0.3V(##) | CL0480-1294-0-## | 12          | 2     | 4.05 | 1.5 | 2.0 | 2.83 | 20,000pcs per reel           | 1,000pcs per reel            |
| BM55B0.5-14DS/2-0.3V(##) | CL0673-7814-0-## | 14          | 2     | 4.35 | 1.8 | 2.3 | 3.13 | 25,000pcs per reel           | 1,000pcs per reel            |
| BM55B0.5-26DS/2-0.3V(##) | CL0673-7826-0-## | 26          | 2     | 6.15 | 3.6 | 4.1 | 4.93 | 20,000pcs per reel           | 1,000pcs per reel            |

### Stacking Height 0.6mm

Unit : mm

| Part No.                 | HRS No.          | No. of Pos. |       | D    | E   | F   | G    | Purchase Unit<br>(##) : (51) | Purchase Unit<br>(##) : (53) |
|--------------------------|------------------|-------------|-------|------|-----|-----|------|------------------------------|------------------------------|
|                          |                  | Signal      | Power |      |     |     |      |                              |                              |
| BM55B0.6-12DS/2-0.3V(##) | CL0480-1295-0-## | 12          | 2     | 4.05 | 1.5 | 2.0 | 2.83 | 20,000pcs per reel           | 1,000pcs per reel            |

### Stacking Height 0.8mm

Unit : mm

| Part No.                 | HRS No.          | No. of Pos. |       | D    | E   | F   | G    | Purchase Unit<br>(##) : (51) | Purchase Unit<br>(##) : (53) |
|--------------------------|------------------|-------------|-------|------|-----|-----|------|------------------------------|------------------------------|
|                          |                  | Signal      | Power |      |     |     |      |                              |                              |
| BM55B0.8-10DS/2-0.3V(##) | CL0480-1293-0-## | 10          | 2     | 3.75 | 1.2 | 1.7 | 2.53 | 20,000pcs per reel           | 1,000pcs per reel            |

Note 1: Please order embossed tape packaged items by the reel.

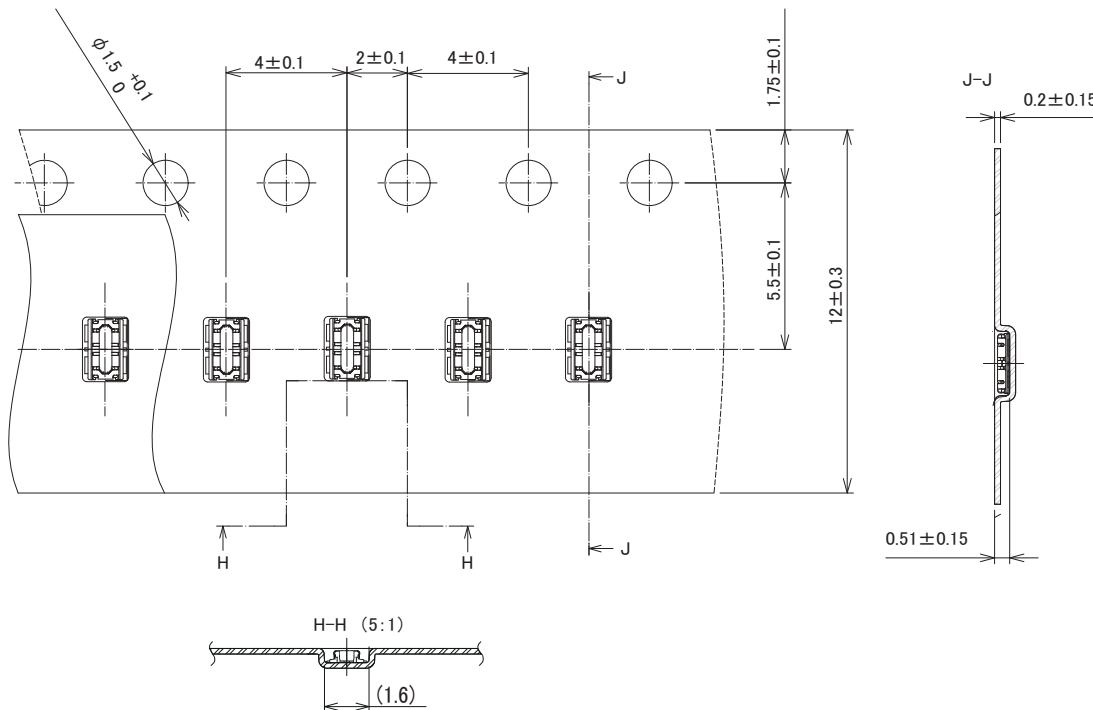
Note 2: This connector has no polarity.

## Packaging Specification

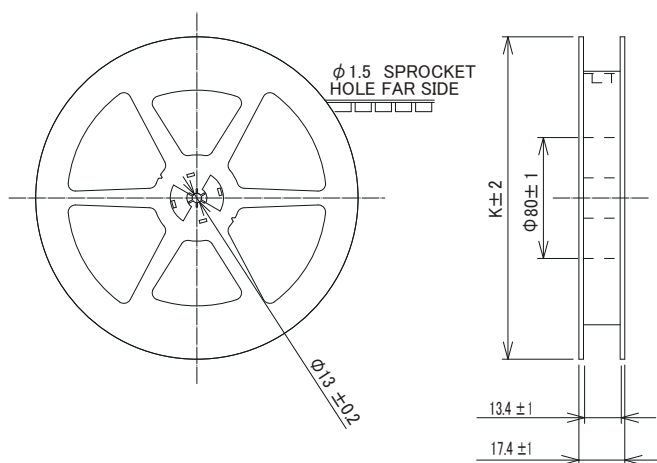
IEC 60286-3, JIS C 0806 Compliant

### Plug

#### ● Embossed Tape Dimensions (2pos.)



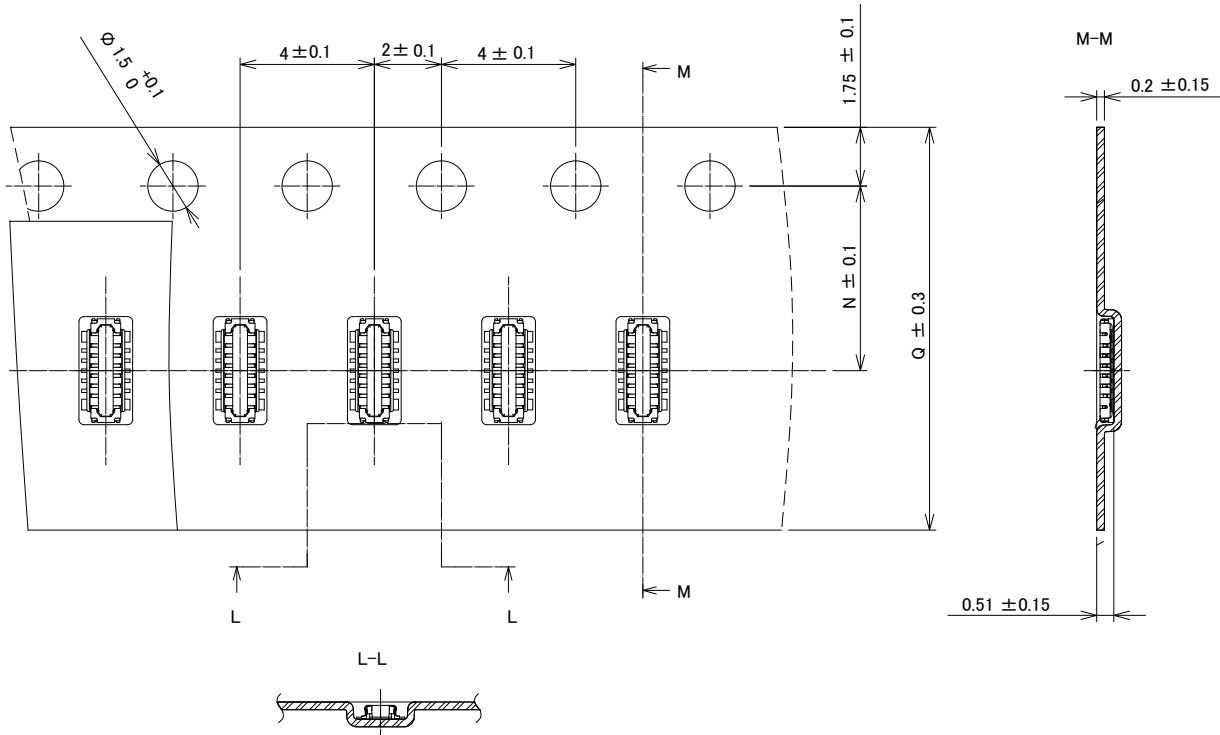
#### ● Reel Dimensions (2pos.)



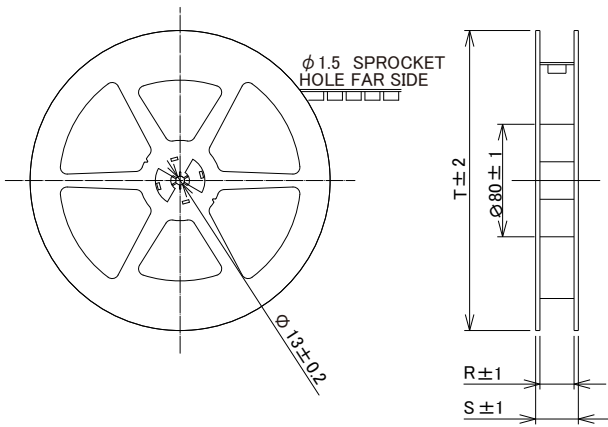
Unit : mm

| Part No.             | HRS No.          | No. of Pos. |       | Purchase Unit<br>(#) : (51)          | Purchase Unit<br>(#) : (53)         |
|----------------------|------------------|-------------|-------|--------------------------------------|-------------------------------------|
|                      |                  | Signal      | Power |                                      |                                     |
| BM55R-2DP/2-0.3V(##) | CL0673-1005-0-## | 2           | 2     | 30,000pcs per reel<br>K : $\phi$ 380 | 1,000pcs per reel<br>K : $\phi$ 180 |

### ● Embossed Tape Dimensions (4pos. or more)



### ● Reel Dimensions (4pos. or more)

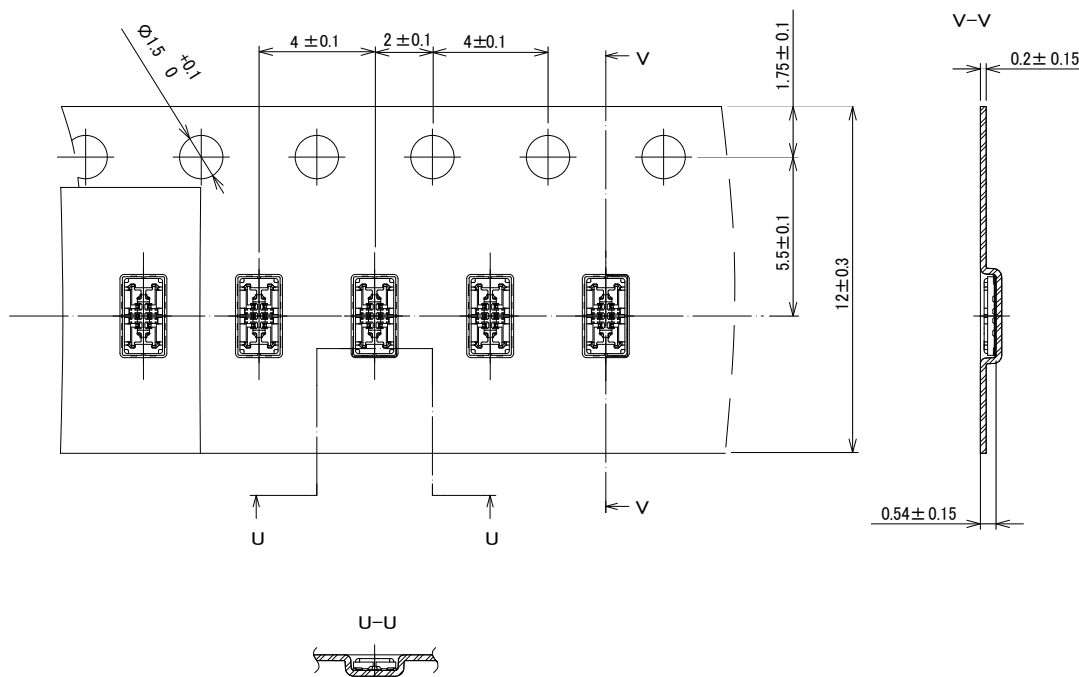


Unit : mm

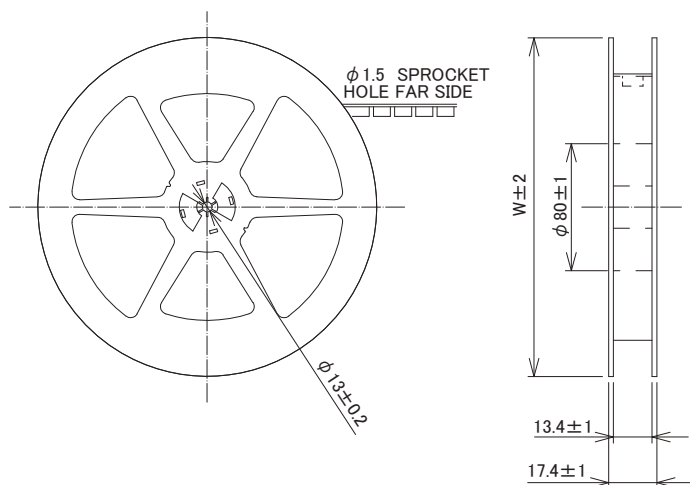
| Part No.                 | HRS No.          | No. of Pos. |       | N   | Q  | R    | S    | Purchase Unit<br>(#) : (51)     | Purchase Unit<br>(#) : (53)    |
|--------------------------|------------------|-------------|-------|-----|----|------|------|---------------------------------|--------------------------------|
|                          |                  | Signal      | Power |     |    |      |      |                                 |                                |
| BM55B-10DP/2-0.3V(##)    | CL0673-7811-0-## | 10          | 2     | 5.5 | 12 | 13.4 | 17.4 | 20,000pcs per reel<br>T : φ 380 | 1,000pcs per reel<br>T : φ 180 |
| BM55B-12DP/2-0.3V(##)    | CL0673-0181-0-## | 12          | 2     | 5.5 | 12 | 13.4 | 17.4 | 20,000pcs per reel<br>T : φ 380 | 1,000pcs per reel<br>T : φ 180 |
| BM55B0.5-14DP/2-0.3V(##) | CL0673-7815-0-## | 14          | 2     | 7.5 | 16 | 17.4 | 21.4 | 30,000pcs per reel<br>T : φ 380 | 1,000pcs per reel<br>T : φ 180 |
| BM55B-26DP/2-0.3V(##)    | CL0673-7827-0-## | 26          | 2     | 7.5 | 16 | 17.4 | 21.4 | 20,000pcs per reel<br>T : φ 380 | 1,000pcs per reel<br>T : φ 180 |

## Receptacle

### ● Embossed Tape Dimensions (2pos.)



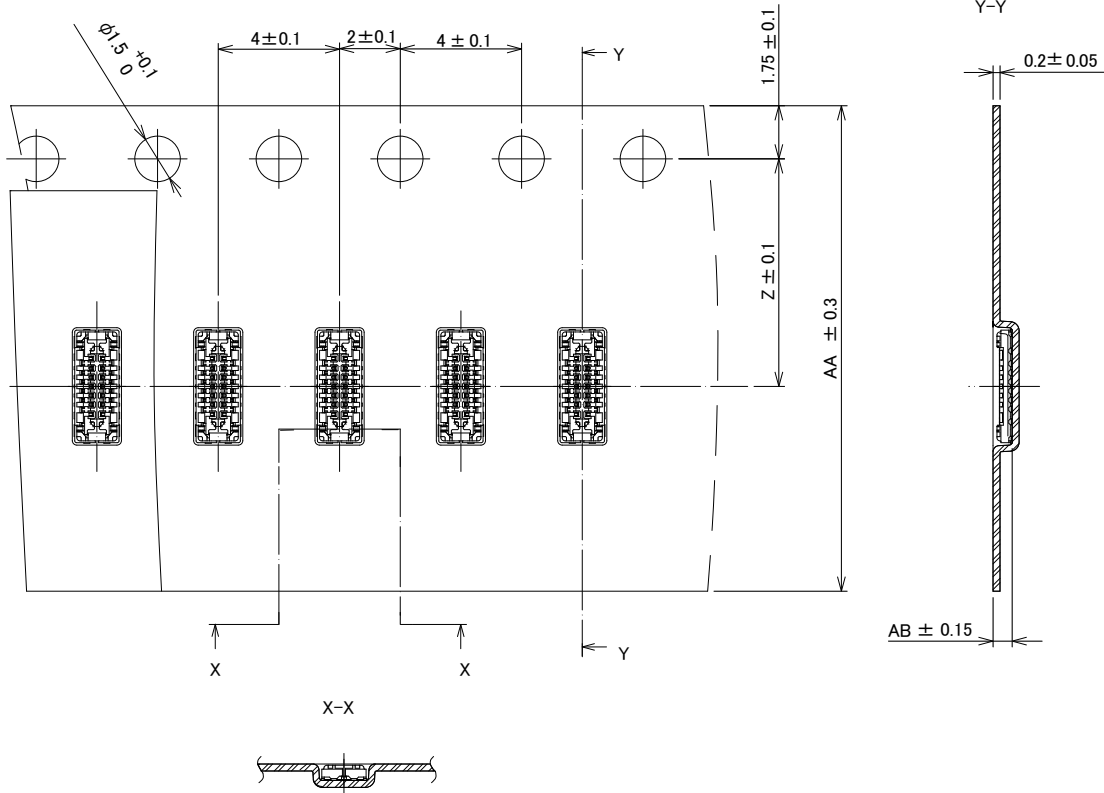
### ● Reel Dimensions (2pos.)



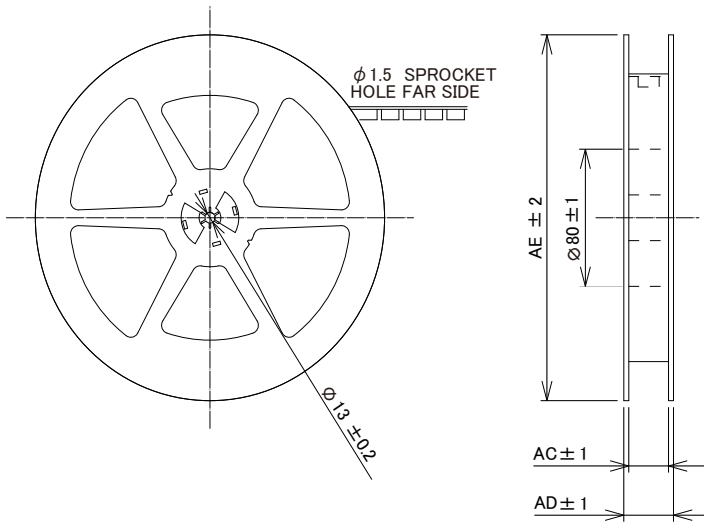
Unit : mm

| Part No.                | HRS No.          | No. of Pos. |       | Purchase Unit<br>(#): (51)          | Purchase Unit<br>(#): (53)         |
|-------------------------|------------------|-------------|-------|-------------------------------------|------------------------------------|
|                         |                  | Signal      | Power |                                     |                                    |
| BM55R0.5-2DS/2-0.3V(##) | CL0673-7800-0-## | 2           | 2     | 30,000pcs per reel<br>W: $\phi$ 380 | 1,000pcs per reel<br>W: $\phi$ 180 |

● Embossed Tape Dimensions (4pos. or more)



● Reel Dimensions (4pos. or more)



### Stacking Height 0.5mm

Unit : mm

| Part No.                 | HRS No.          | No. of Pos. |       | Z   | AA | AB   | AC   | AD   | Purchase Unit<br>(##) : (51)    | Purchase Unit<br>(##) : (53)   |
|--------------------------|------------------|-------------|-------|-----|----|------|------|------|---------------------------------|--------------------------------|
|                          |                  | Signal      | Power |     |    |      |      |      |                                 |                                |
| BM55B0.5-10DS/2-0.3V(##) | CL0480-1271-0-## | 10          | 2     | 7.5 | 16 | 0.63 | 17.4 | 21.4 | 20,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |
| BM55B0.5-12DS/2-0.3V(##) | CL0480-1294-0-## | 12          | 2     | 7.5 | 16 | 0.63 | 17.4 | 21.4 | 20,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |
| BM55B0.5-14DS/2-0.3V(##) | CL0673-7814-0-## | 14          | 2     | 7.5 | 16 | 0.63 | 17.4 | 21.4 | 25,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |
| BM55B0.5-26DS/2-0.3V(##) | CL0673-7826-0-## | 26          | 2     | 7.5 | 16 | 0.63 | 17.4 | 21.4 | 20,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |

### Stacking Height 0.6mm

Unit : mm

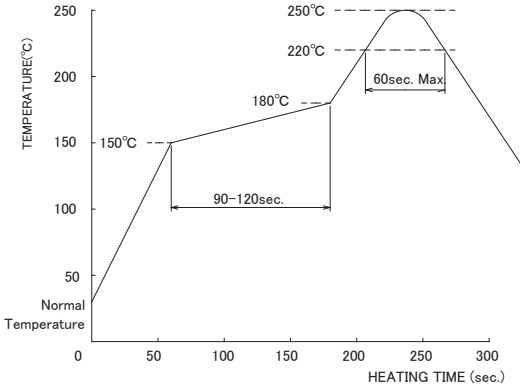
| Part No.                 | HRS No.          | No. of Pos. |       | Z   | AA | AB   | AC   | AD   | Purchase Unit<br>(##) : (51)    | Purchase Unit<br>(##) : (53)   |
|--------------------------|------------------|-------------|-------|-----|----|------|------|------|---------------------------------|--------------------------------|
|                          |                  | Signal      | Power |     |    |      |      |      |                                 |                                |
| BM55B0.6-12DS/2-0.3V(##) | CL0480-1295-0-## | 12          | 2     | 7.5 | 16 | 0.71 | 17.4 | 21.4 | 20,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |

### Stacking Height 0.8mm

Unit : mm

| Part No.                 | HRS No.          | No. of Pos. |       | Z   | AA | AB   | AC   | AD   | Purchase Unit<br>(##) : (51)    | Purchase Unit<br>(##) : (53)   |
|--------------------------|------------------|-------------|-------|-----|----|------|------|------|---------------------------------|--------------------------------|
|                          |                  | Signal      | Power |     |    |      |      |      |                                 |                                |
| BM55B0.8-10DS/2-0.3V(##) | CL0480-1293-0-## | 10          | 2     | 7.5 | 16 | 0.93 | 17.4 | 21.4 | 20,000pcs per reel<br>AE: φ 380 | 1,000pcs per reel<br>AE: φ 180 |

## Precautions

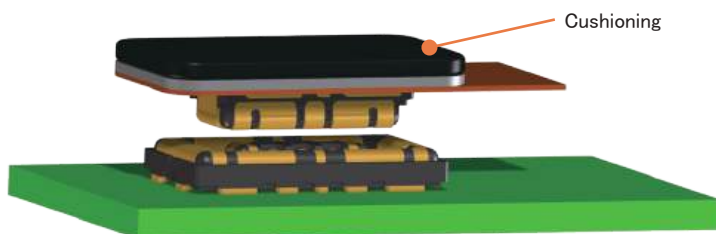
|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended Temperature Profile                                            |  <p><b>【Conditions】</b></p> <ol style="list-style-type: none"> <li>1. Peak Temperature : 250°C</li> <li>2. Heating : 220°C Min. for 60sec. Max.</li> <li>3. Preheating : 150 to 180°C, 90 to 120sec.</li> <li>4. Number of Reflow Cycles : 2 cycles Max.</li> </ol> <p>(Note 1) Temperature refers to the surface temperature of the board near the connector lead.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Recommended Manual Soldering Conditions                                    | Soldering iron temperature: $340 \pm 10^{\circ}\text{C}$ , Soldering Time: Within 3sec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Recommended Metal Mask Thickness and Open Area to PCB Pattern (Area Ratio) | Thickness: 0.08mm<br>Aperture Ratio: Plug Side 100%, Receptacle Side Signal/Power Part 80%, Longitudinal PCB Side 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cleaning                                                                   | Cleaning is not recommended.<br>If you clean this product, please evaluate its performance before using it.<br>(Cleaning may impair the mating/unmating properties and lower resistance to environmental factors.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precautions                                                                | <ul style="list-style-type: none"> <li>· Be careful when mating/unmating the connector when it is not mounted on the PCB as it may cause damage/deformation to contacts.</li> <li>· Avoid supporting the PCB only with the connectors.<br/>Support it by other means such as bolts, screws, posts, etc.</li> <li>· Excessive prying during unmating/mating may result in damage.</li> <li>· In the case of hand soldering, please do not apply any flux which could cause flux wicking.</li> <li>· This product may have slight color differences due to production lot variability, but this does not affect the performance.</li> <li>· Please refer to the following page for handling precautions when inserting and removing.</li> <li>· Because the product can disengage if dropped (or other impact), or by FPC routing, it is advised to secure the mated connectors to the board with housings and cushioning materials.</li> <li>· Do not use the connector in non-recommended conditions (i.e., rated current, rated voltage, PCB design and operating environment, etc.). Such usage could lead to material outgassing, ignition, or short-circuit, etc. Refer to the specifications and guidelines for board pattern dimensions, board cautions, and connector treatment.<br/>Please contact Hirose if connector usage in conditions other than those described in the specifications and the guidelines is being considered.</li> </ul> |

## Connector Handling Precautions

### 【Handling Warning When Mating the Connector】

#### Mating Disengagement Prevention

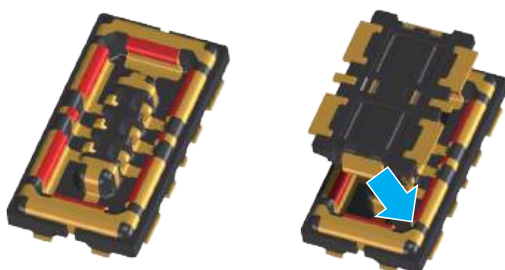
Please use cushioning. The connector may come off due to impact such as dropping. Cushioning should be large enough to cover the entire connector.



### 【Mating Method】

1. Locate the guide port and align.

This product has a guide rib on the plug side to ensure proper engagement. Align the connector so that it is in this position.



2. Once aligned, the connector engages.

You can feel the mated height of the connector lower.

Move the connector forward and backward,  
left and right to find the guide port.

Move Slightly

The mated height lowers to the  
perfect mated condition.



3. In the engaged state, the connectors are parallel to each other, and the connectors cannot move forward, backward, left, or right. Complete mating from this state.

Move Slightly



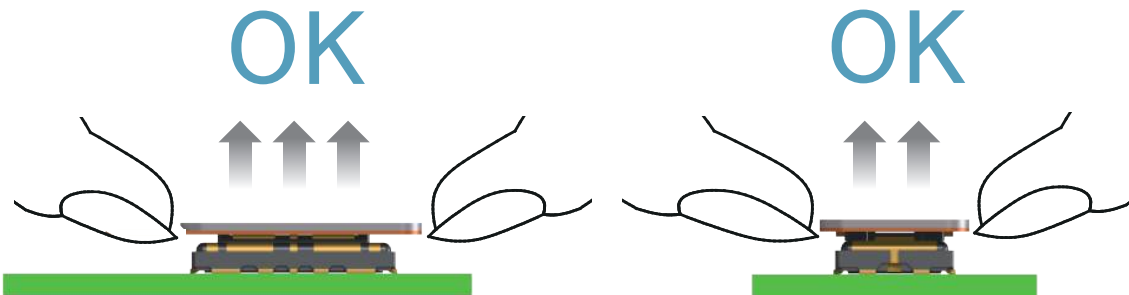
4. Check that mating is completed.

If one side is floating, or if it is mated diagonally, remove and re-mate.

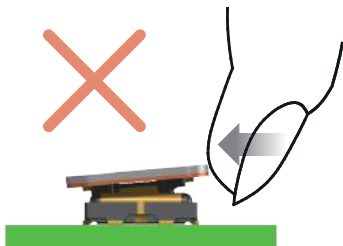


### 【Handling When Removing Connector】

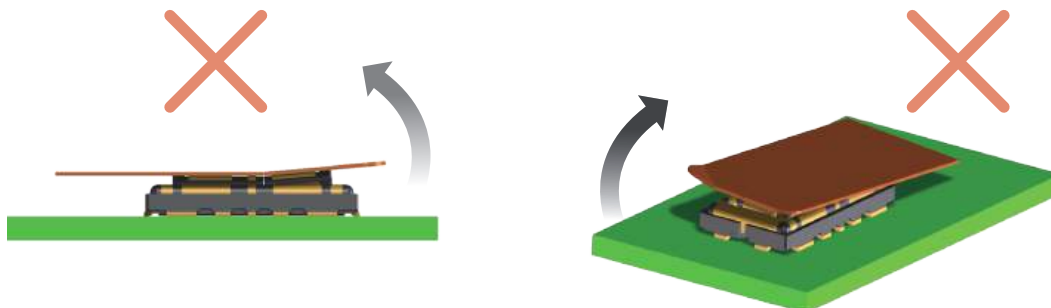
1. When removing the connector, it is preferable to pull it out in the upward direction from the connector mounting surface. However, when removing the FPC from the circuit board it becomes more difficult to remove it vertically with higher pin counts and thin FPCs.



2. If difficult to remove, extract the connector diagonally in the direction of the pitch. Note that removal from the widthwise side will apply a large load to the contacts. When removing from the width direction, pull the end of the FPC in the upward direction.  
(When a force is applied in the horizontal direction, a large load is applied to the contact.)



3. If the FPC does not have sufficient rigidity, solder stripping or connector breakage may occur. Please use it after checking the repetitive operation with a flexible board in advance, such as during a trial manufacture run (Left diagram). Refrain from holding the corner of the flexible board and removing it diagonally as it will result in a large load to the contacts (Right diagram).



## While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.

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HIROSE ELECTRIC CO.,LTD.

2-6-3 Nakagawa Chuoh, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN  
<https://www.hirose.com>