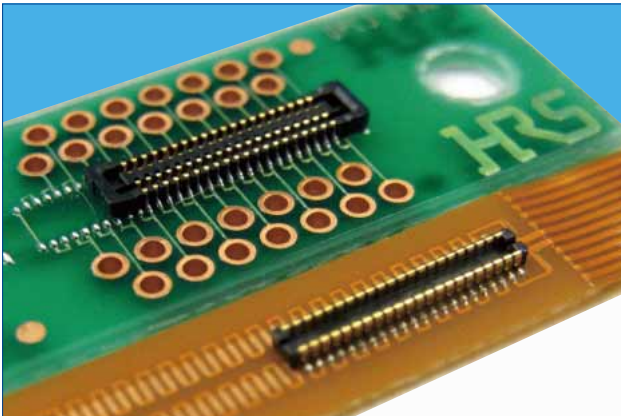


# 0.4mm Pitch, 0.6 and 0.8mm Height, Board-to-Board and Board-to-FPC Connectors

## BM20 Series



### ■Features

#### 1. High density mounting capability

A space saving design that keeps the connector compact, but still maintains an adequate vacuum area (no less than 0.7mm wide).

Depth DS : 2.3mm DP : 1.78mm

#### 2. Reliable contact performance

Even though the mated height is low, the BM20 still leads it class in maximum effective mating lengths for each mating height.

<Effective Mating Length>

Height 0.8mm : 0.2mm

Height 0.6mm : 0.15mm

The addition of the two point contact system adds more reliability to the contacts.

#### 3. No restrictions to PCB pattern design for the 0.8 mm height connector \*1

This series utilizes a thin wall to insulate the bottom surface of the connector and maintains an effective mating length of 0.2mm. This removes any restriction for PCB pattern layout design under the connector.

Note \*1: There are some restrictions for the 0.6 mm height style.

#### 4. Enhanced mating operations

The structure uses guide ribs to ease the mating process and offers a self alignment range of up to 0.3mm. A clear tactile click is used as an indicator to the user that the mating process was completed.

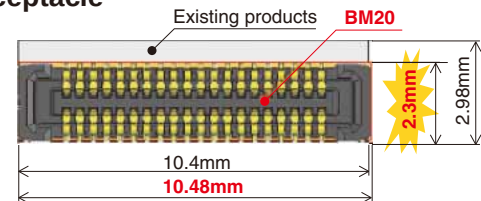
#### 5. Drop and shock resistant structure

Dimples were designed into the contacts to increase their retention force and to absorb the shock delivered from a drop or other impact.

#### 6. Debris resisting design

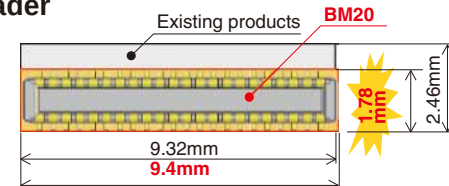
When mated, the connector's design covers the contacts which help to keep dust and other debris away from the contacts. The SMT leads are kept very close to the connector housing which also helps to prevent shorts caused by debris on the exposed contacts

### ■Receptacle



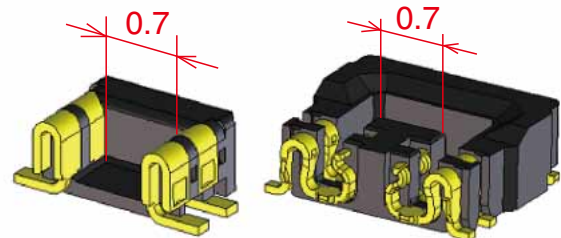
| Existing products                                 | BM20                                              |
|---------------------------------------------------|---------------------------------------------------|
| $2.98 \times 10.4$<br>= About 31.0mm <sup>2</sup> | $2.3 \times 10.48$<br>= About 24.1mm <sup>2</sup> |

### ■Header



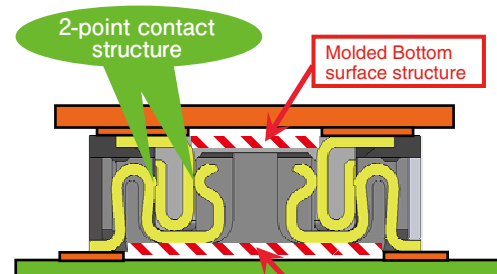
| Existing products                                 | BM20                                             |
|---------------------------------------------------|--------------------------------------------------|
| $2.46 \times 9.32$<br>= About 22.9mm <sup>2</sup> | $1.78 \times 9.4$<br>= About 16.7mm <sup>2</sup> |

### Vacuum pick-up

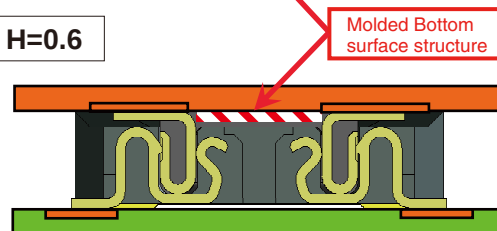


### Mating diagram (cross section)

H=0.8



H=0.6



## ■Product Specifications

|         |               |            |                             |                      |                           |                      |
|---------|---------------|------------|-----------------------------|----------------------|---------------------------|----------------------|
| Ratings | Rated Current | 0.3A       | Operating Temperature Range | - 35 ~ 85°C (Note 1) | Storage Temperature Range | - 10 ~ 60°C (Note 2) |
|         | Rated Voltage | AC, DC 30V | Operating Humidity Range    | 20 ~ 80%             | Storage Humidity Range    | 40 ~ 70% (Note 2)    |

| Items                        | Specifications                                                               | Conditions                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1. Insulation Resistance     | Minimum of 50MΩ                                                              | Measured with DC 100V                                                                                                           |
| 2. Withstanding Voltage      | No flashover or breakdown                                                    | Apply AC 100V for 1 minute                                                                                                      |
| 3. Contact Resistance        | Maximum of 100mΩ                                                             | Measured with AC 20 mV, 1 kHz and 1 mA                                                                                          |
| 4. Vibration Resistance      | No electrical discontinuity of 1μs or greater                                | Frequency 10-55 Hz, half amplitude 0.75mm, 3 directions for 2 hours                                                             |
| 5. Humidity Resistance       | Contact resistance Maximum of 100mΩ<br>Insulation resistance Minimum of 25mΩ | Left at temperature 40±2°C, humidity 90 to 95%, 96 hours                                                                        |
| 6. Temperature Cycles        | Contact resistance Maximum of 100mΩ<br>Insulation resistance Minimum of 50mΩ | (-55°C : 30 minutes → 5~35°C : 10 minutes → 85°C : 30 minutes → 5~35°C : 10 minutes) 5 cycles                                   |
| 7. Durability                | Contact Resistance: maximum of 100mΩ                                         | 10 mating cycles                                                                                                                |
| 8. Soldering Heat Resistance | Should be no melting of resin parts that affects its performance             | Reflow : according to the Recommended Solder Profile<br>Hand solder : Soldering iron temperature 350°C, no more than 3 seconds. |

Note 1 : Includes temperature rise caused by current flow.

Note 2 : The term "storage" here refers to products stored for a long period prior to board mounting and use. The operating temperature and humidity range covers the non-energized condition of connectors after board mounting and the temporary storage conditions during transportation, etc.

## ■Materials

| Product    | Component | Materials          | Finish       | UL Regulation |
|------------|-----------|--------------------|--------------|---------------|
| Receptacle | Insulator | LCP                | Black        | UL94V-0       |
| Header     | Contact   | Phosphorous bronze | Gold plating | —————         |

## ■Product Number Structure

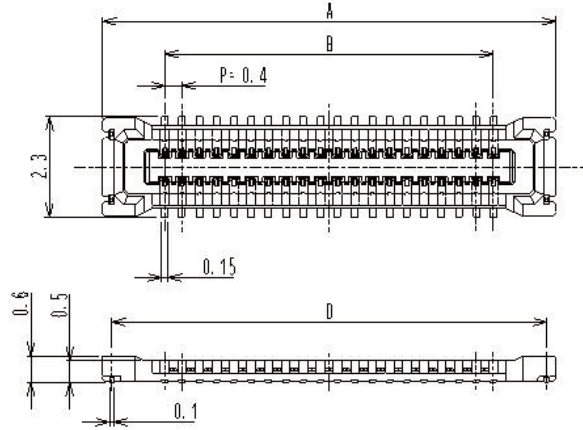
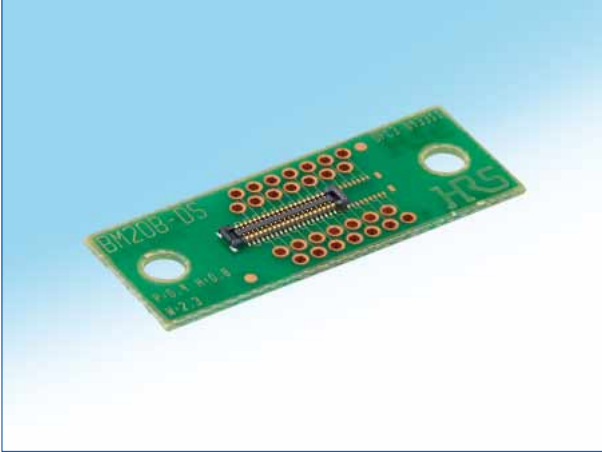
Refer to this page when determining product specifications by model types. Please place orders with part numbers listed in this catalog. The characteristics and specifications of the product described in this catalog are reference values. Please make sure to check the latest delivery specifications at the time of product use.

### ●Receptacle/Header

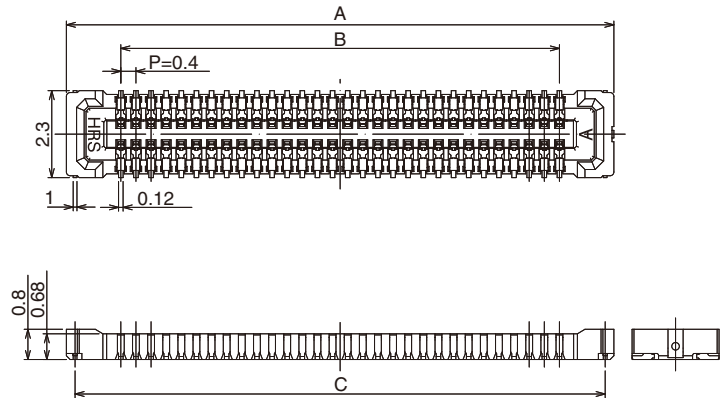
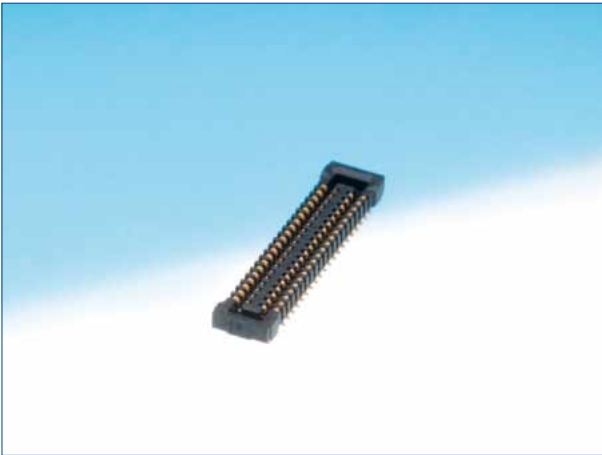
**BM 20 # (\*\* ) - \* DS - 0.4 V (51)**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

|                                                       |                                                                          |
|-------------------------------------------------------|--------------------------------------------------------------------------|
| ① Series Name : BM                                    | ⑥ Connector Type<br>DS : Double row receptacle<br>DP : Double row header |
| ② Series No. : 20                                     | ⑦ Contact Pitch : 0.4mm                                                  |
| ③ Shape Symbols<br>B : With reinforcing metal fitting | ⑧ Terminal Shape V : Vertical SMT                                        |
| ④ Stack height : 0.6mm, 0.8mm                         | ⑨ Packaging<br>(51) : Embossed tape package (8,000 pieces per reel)      |
| ⑤ No. of Contacts : Please refer to page 3 and after. |                                                                          |

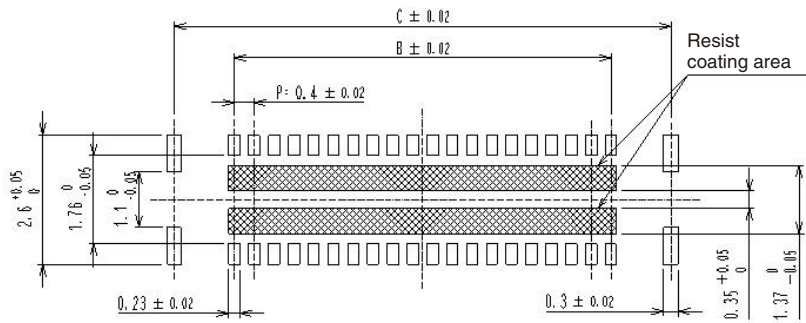
## ■ H=0.6mm receptacle



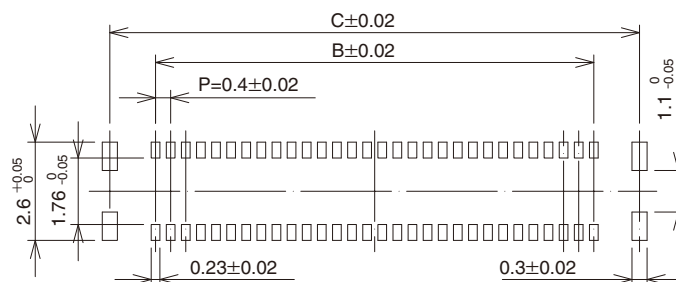
## ■ H=0.8mm receptacle



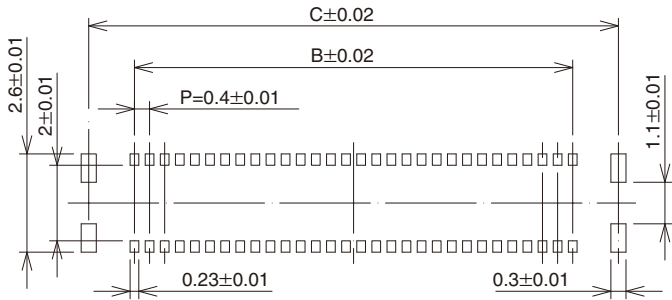
### ◆ Recommended PCB layout [H= 0.6mm]



### ◆ Recommended PCB layout [H= 0.8mm]



◆Recommended metal mask size (Mask thickness 100 μm) [0.6 mm and 0.8 mm common]



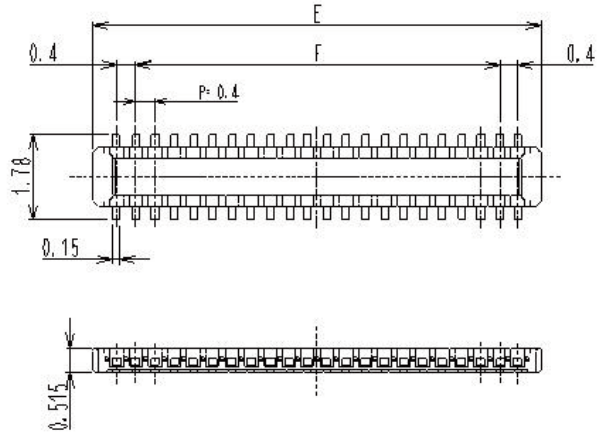
Unit : mm

| Part No.                 | HRS No.        | No. of Contacts | A     | B    | C     | D     |
|--------------------------|----------------|-----------------|-------|------|-------|-------|
| BM20B(0.6)-10DS-0.4V(51) | 0684-9308-8 51 | 10              | 4.48  | 1.6  | 4.02  | 4.06  |
| BM20B(0.6)-20DS-0.4V(51) | 0684-9309-0 51 | 20              | 6.48  | 3.6  | 6.02  | 6.06  |
| BM20B(0.6)-24DS-0.4V(51) | 0684-9310-0 51 | 24              | 7.28  | 4.4  | 6.82  | 6.86  |
| BM20B(0.6)-30DS-0.4V(51) | 0684-9311-2 51 | 30              | 8.48  | 5.6  | 8.02  | 8.06  |
| BM20B(0.6)-34DS-0.4V(51) | 0684-9312-5 51 | 34              | 9.28  | 6.4  | 8.82  | 8.86  |
| BM20B(0.6)-40DS-0.4V(51) | 0684-9313-8 51 | 40              | 10.48 | 7.6  | 10.02 | 10.06 |
| BM20B(0.6)-50DS-0.4V(51) | 0684-9314-0 51 | 50              | 12.48 | 9.6  | 12.02 | 12.06 |
| BM20B(0.6)-60DS-0.4V(51) | 0684-9315-3 51 | 60              | 14.48 | 11.6 | 14.02 | 14.06 |

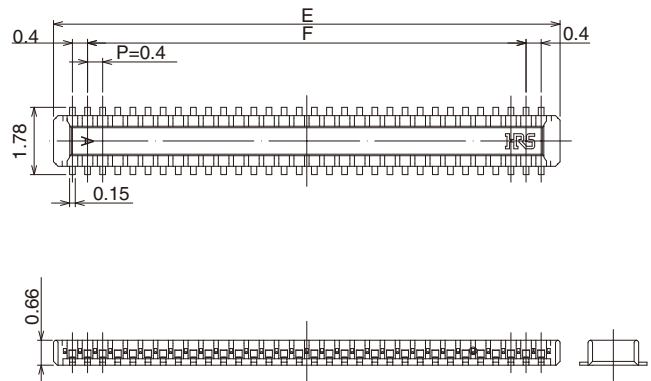
| Part No.                 | HRS No.        | No. of Contacts | A     | B   | C     |
|--------------------------|----------------|-----------------|-------|-----|-------|
| BM20B(0.8)-10DS-0.4V(51) | 0684-9008-4 51 | 10              | 4.48  | 1.6 | 4.02  |
| BM20B(0.8)-16DS-0.4V(51) | 0684-9041-0 51 | 16              | 5.68  | 2.8 | 5.22  |
| BM20B(0.8)-20DS-0.4V(51) | 0684-9009-7 51 | 20              | 6.48  | 3.6 | 6.02  |
| BM20B(0.8)-24DS-0.4V(51) | 0684-9010-6 51 | 24              | 7.28  | 4.4 | 6.82  |
| BM20B(0.8)-30DS-0.4V(51) | 0684-9011-9 51 | 30              | 8.48  | 5.6 | 8.02  |
| BM20B(0.8)-34DS-0.4V(51) | 0684-9020-0 51 | 34              | 9.28  | 6.4 | 8.82  |
| BM20B(0.8)-40DS-0.4V(51) | 0684-9012-1 51 | 40              | 10.48 | 7.6 | 10.02 |
| BM20B(0.8)-50DS-0.4V(51) | 0684-9013-4 51 | 50              | 12.48 | 9.6 | 12.02 |

Note 1 : This product is sold by full reel quantities of 8,000 pieces per reel. Please place orders in full reel quantities.  
Note 2 : This connector is NOT polarized.

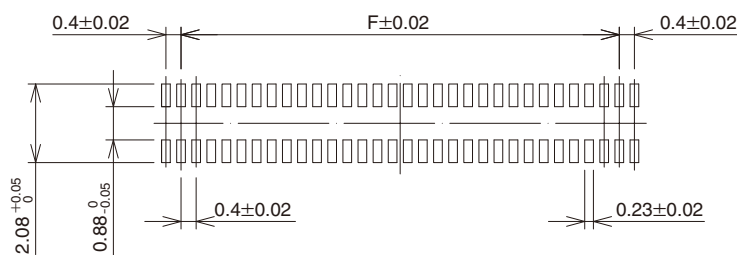
## H=0.6mm header



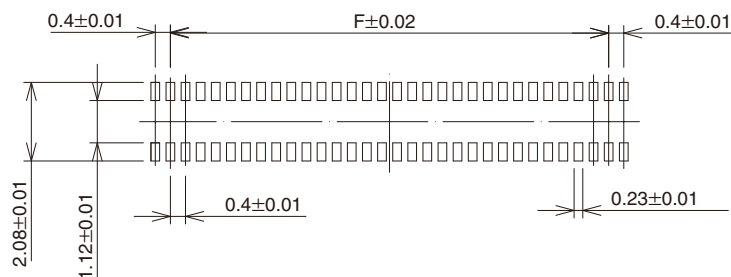
## H=0.8mm header



## Recommended PCB layout [0.6mm and 0.8mm common]



## Recommended metal mask size (Mask thickness 100μm) [0.6mm and 0.8mm common]



Unit : mm

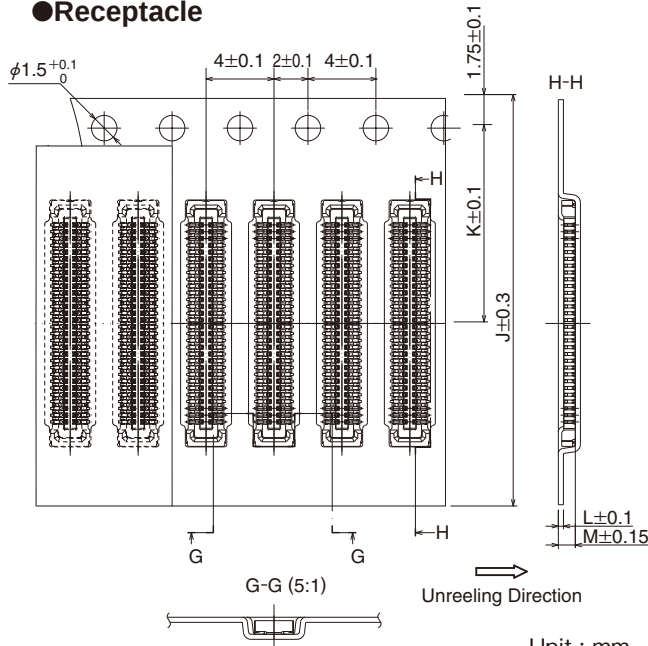
| Part No                  | HRS No.        | No. of Contacts | E    | F    |
|--------------------------|----------------|-----------------|------|------|
| BM20B(0.6)-10DP-0.4V(51) | 0684-9300-6 51 | 10              | 3.4  | 1.6  |
| BM20B(0.6)-20DP-0.4V(51) | 0684-9301-9 51 | 20              | 5.4  | 3.6  |
| BM20B(0.6)-24DP-0.4V(51) | 0684-9302-1 51 | 24              | 6.2  | 4.4  |
| BM20B(0.6)-30DP-0.4V(51) | 0684-9303-4 51 | 30              | 7.4  | 5.6  |
| BM20B(0.6)-34DP-0.4V(51) | 0684-9304-7 51 | 34              | 8.2  | 6.4  |
| BM20B(0.6)-40DP-0.4V(51) | 0684-9305-0 51 | 40              | 9.4  | 7.6  |
| BM20B(0.6)-50DP-0.4V(51) | 0684-9306-2 51 | 50              | 11.4 | 9.6  |
| BM20B(0.6)-60DP-0.4V(51) | 0684-9307-5 51 | 60              | 13.4 | 11.6 |

| Part No                  | HRS No.        | No. of Contacts | E    | F   |
|--------------------------|----------------|-----------------|------|-----|
| BM20B(0.8)-10DP-0.4V(51) | 0684-9001-5 51 | 10              | 3.4  | 1.6 |
| BM20B(0.8)-16DP-0.4V(51) | 0684-9040-7 51 | 16              | 4.6  | 2.8 |
| BM20B(0.8)-20DP-0.4V(51) | 0684-9002-8 51 | 20              | 5.4  | 3.6 |
| BM20B(0.8)-24DP-0.4V(51) | 0684-9003-0 51 | 24              | 6.2  | 4.4 |
| BM20B(0.8)-30DP-0.4V(51) | 0684-9004-3 51 | 30              | 7.4  | 5.6 |
| BM20B(0.8)-34DP-0.4V(51) | 0684-9019-0 51 | 34              | 8.2  | 6.4 |
| BM20B(0.8)-40DP-0.4V(51) | 0684-9005-6 51 | 40              | 9.4  | 7.6 |
| BM20B(0.8)-50DP-0.4V(51) | 0684-9006-9 51 | 50              | 11.4 | 9.6 |

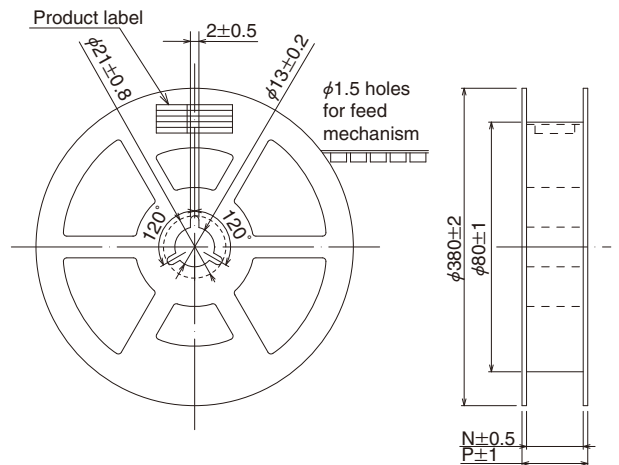
Note 1 : This product is sold by full reel quantities of 8,000 pieces per reel. Please place orders in full reel quantities.  
Note 2 : This connector is NOT polarized.

## ◆ Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

### ● Receptacle



### ● Reel Condition Dimensions



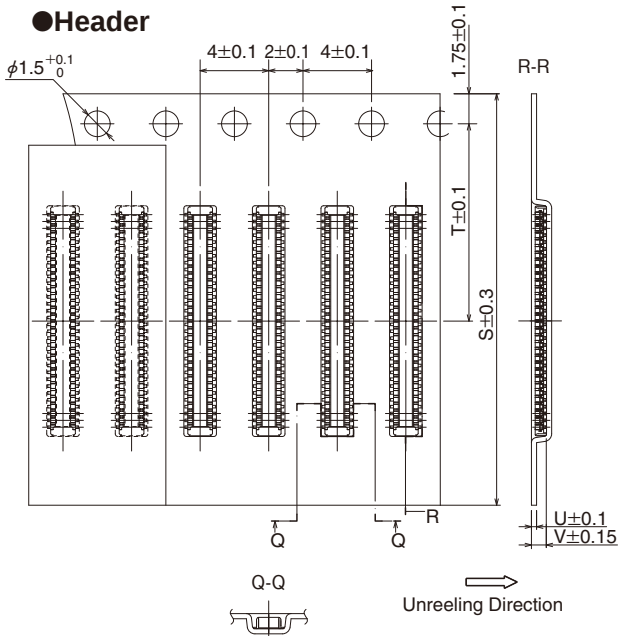
Unit : mm

| Part No.                 | J  | K    | L    | M   | N    | P    |
|--------------------------|----|------|------|-----|------|------|
| BM20B(0.6)-10DS-0.4V(51) | 16 | 7.5  | 0.25 | 0.8 | 17.5 | 21.5 |
| BM20B(0.6)-20DS-0.4V(51) | 16 | 7.5  | 0.25 | 0.8 | 17.5 | 21.5 |
| BM20B(0.6)-24DS-0.4V(51) | 16 | 7.5  | 0.25 | 0.8 | 17.5 | 21.5 |
| BM20B(0.6)-30DS-0.4V(51) | 24 | 11.5 | 0.25 | 0.8 | 25.5 | 29.5 |
| BM20B(0.6)-34DS-0.4V(51) | 24 | 11.5 | 0.25 | 0.8 | 25.5 | 29.5 |
| BM20B(0.6)-40DS-0.4V(51) | 24 | 11.5 | 0.25 | 0.8 | 25.5 | 29.5 |
| BM20B(0.6)-50DS-0.4V(51) | 24 | 11.5 | 0.25 | 0.8 | 25.5 | 29.5 |
| BM20B(0.6)-60DS-0.4V(51) | 24 | 11.5 | 0.25 | 0.8 | 25.5 | 29.5 |

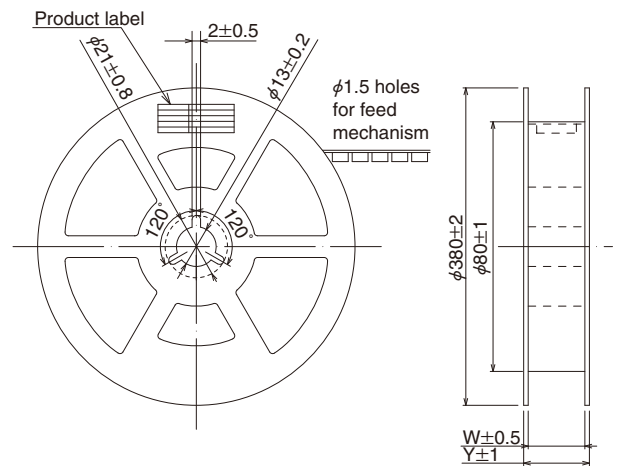
| Part No.                 | J  | K    | L   | M | N    | P    |
|--------------------------|----|------|-----|---|------|------|
| BM20B(0.8)-10DS-0.4V(51) | 16 | 7.5  | 0.3 | 1 | 17.5 | 21.5 |
| BM20B(0.8)-16DS-0.4V(51) | 16 | 7.5  | 0.3 | 1 | 17.5 | 21.5 |
| BM20B(0.8)-20DS-0.4V(51) | 16 | 7.5  | 0.3 | 1 | 17.5 | 21.5 |
| BM20B(0.8)-24DS-0.4V(51) | 16 | 7.5  | 0.3 | 1 | 17.5 | 21.5 |
| BM20B(0.8)-30DS-0.4V(51) | 24 | 11.5 | 0.3 | 1 | 25.5 | 29.5 |
| BM20B(0.8)-34DS-0.4V(51) | 24 | 11.5 | 0.3 | 1 | 25.5 | 29.5 |
| BM20B(0.8)-40DS-0.4V(51) | 24 | 11.5 | 0.3 | 1 | 25.5 | 29.5 |
| BM20B(0.8)-50DS-0.4V(51) | 24 | 11.5 | 0.3 | 1 | 25.5 | 29.5 |

## ◆ Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

### ● Header



### ● Reel Dimensions

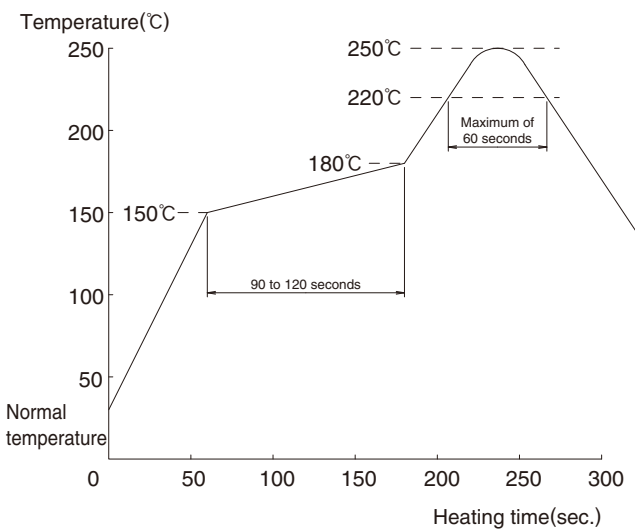


Unit : mm

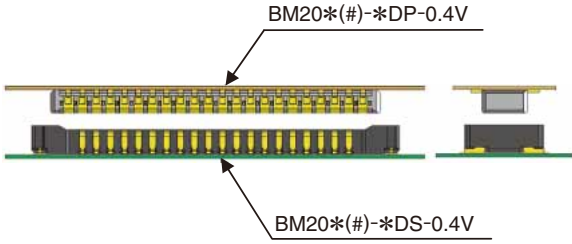
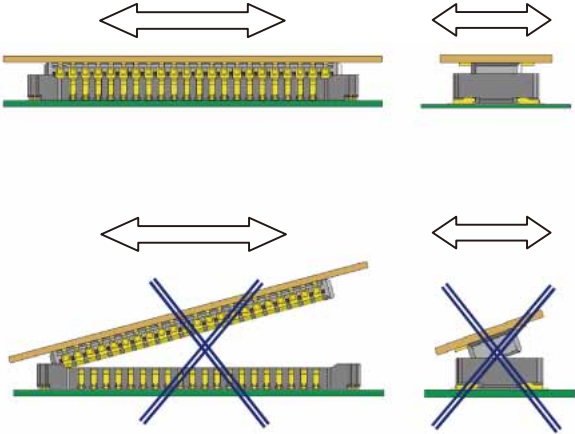
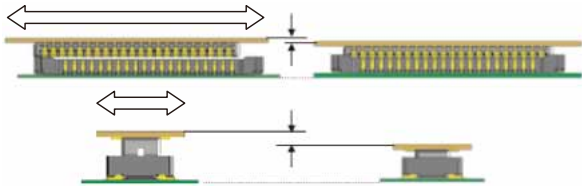
| Part No.                 | S  | T    | U    | V    | W    | Y    |
|--------------------------|----|------|------|------|------|------|
| BM20B(0.6)-10DP-0.4V(51) | 12 | 5.5  | 0.25 | 0.65 | 13.5 | 17.5 |
| BM20B(0.6)-20DP-0.4V(51) | 16 | 7.5  | 0.25 | 0.65 | 17.5 | 21.5 |
| BM20B(0.6)-24DP-0.4V(51) | 16 | 7.5  | 0.25 | 0.65 | 17.5 | 21.5 |
| BM20B(0.6)-30DP-0.4V(51) | 16 | 7.5  | 0.25 | 0.65 | 17.5 | 21.5 |
| BM20B(0.6)-34DP-0.4V(51) | 24 | 11.5 | 0.25 | 0.65 | 25.5 | 29.5 |
| BM20B(0.6)-40DP-0.4V(51) | 24 | 11.5 | 0.25 | 0.65 | 25.5 | 29.5 |
| BM20B(0.6)-50DP-0.4V(51) | 24 | 11.5 | 0.25 | 0.65 | 25.5 | 29.5 |
| BM20B(0.6)-60DP-0.4V(51) | 24 | 11.5 | 0.25 | 0.65 | 25.5 | 29.5 |

| Part No.                 | S  | T    | U   | V    | W    | Y    |
|--------------------------|----|------|-----|------|------|------|
| BM20B(0.8)-10DP-0.4V(51) | 12 | 5.5  | 0.3 | 0.88 | 13.5 | 17.5 |
| BM20B(0.8)-16DP-0.4V(51) | 16 | 7.5  | 0.3 | 0.88 | 17.5 | 21.5 |
| BM20B(0.8)-20DP-0.4V(51) | 16 | 7.5  | 0.3 | 0.88 | 17.5 | 21.5 |
| BM20B(0.8)-24DP-0.4V(51) | 16 | 7.5  | 0.3 | 0.88 | 17.5 | 21.5 |
| BM20B(0.8)-30DP-0.4V(51) | 16 | 7.5  | 0.3 | 0.88 | 17.5 | 21.5 |
| BM20B(0.8)-34DP-0.4V(51) | 16 | 7.5  | 0.3 | 0.88 | 17.5 | 21.5 |
| BM20B(0.8)-40DP-0.4V(51) | 24 | 11.5 | 0.3 | 0.88 | 25.5 | 29.5 |
| BM20B(0.8)-50DP-0.4V(51) | 24 | 11.5 | 0.3 | 0.88 | 25.5 | 29.5 |

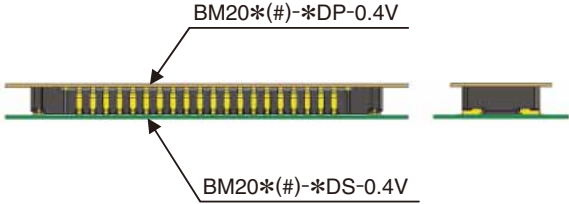
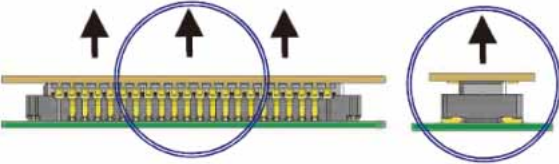
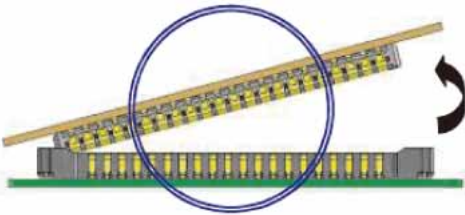
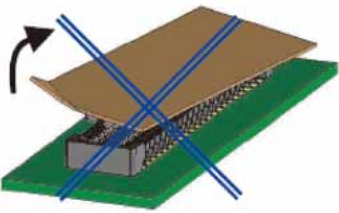
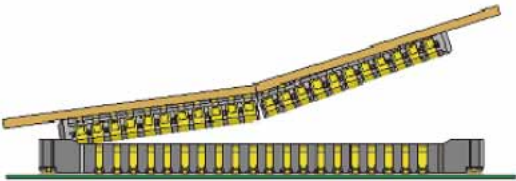
## ◆ Operating Precautions

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Recommended Solder Profile                                       |  <p>The graph shows the recommended solder profile with Temperature (°C) on the y-axis (0 to 250) and Heating time (sec.) on the x-axis (0 to 300). The profile starts at 'Normal temperature' (approx. 25°C), rises to 150°C (90 to 120 seconds), then to 180°C, and finally to a peak of 250°C (Maximum of 60 seconds) before cooling down.</p> <p><b>[Applicable Conditions]</b></p> <ol style="list-style-type: none"> <li>1. Peak temperature : 250°C peak</li> <li>2. Heating parts : 220°C or above, within 60 seconds</li> <li>3. Preheating parts : 150 to 180°C, 90 to 120 seconds</li> <li>4. Number of times : Maximum of 2 reflow cycles</li> </ol> <p>(Note 1) The temperatures mentioned above refer to the PCB surface temperature near the connector leads.</p> <p>(Note 2) When using nitrogen reflow please implement 1,000 [ppm] or higher oxygen density.</p> <p>Please contact the sales representative of our company in case of less than 1,000 [ppm].</p> |
| 2. Recommended hand solder conditions                               | The temperature of the soldering iron should fall within the range of $340 \pm 10^{\circ}\text{C}$ and should not make contact for longer than 3 seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3. Recommended screen thickness: Opening ratio (pattern area ratio) | Thickness : 0.1mm<br>Opening ratio: DS side 70% DP side 80%(H=0.8mm)<br>DP side 70%(H=0.6mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4. Leaning of PCB                                                   | Maximum of 0.02mm at the center of connector (using both edges of connector as criteria)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5. Washing                                                          | Cleaning is not recommended for this connector. Cleaning agents can deteriorate the mechanical operation and the environmental resistance of this connector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6. Precautions                                                      | <ul style="list-style-type: none"> <li>■ Do not mate or unmate these connectors until they are mounted, failure to follow this precaution can lead to deformation or damage to these connectors.</li> <li>■ Provide another form of support to the PCB, this connector was not designed to be the main form of support.</li> <li>■ Using excessive force to mate or unmate this connector can damage the contacts.</li> <li>■ Do not apply excessive amounts of flux as it may cause the solder and flux to wick.</li> <li>■ There may be a slight variance in the color of the molding between production lots, this variance will not affect the performance of the connector.</li> <li>■ Refer to the next page for the handling precautions when mating and unmating the connectors.</li> <li>■ If the connector becomes disconnected due to impact, a fall or a counterforce to the FPC, it may be necessary to hold the connector in place with an addition to the device's case or other cushioning material to hold the connector in place.</li> </ul>       |

● Handling precautions when mating

|                                                                                                                                       |                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>BM20* (#)-*DP-0.4V</p> <p>BM20* (#)-*DS-0.4V</p> |                                                                                                                                                              |
|                                                     | <p>Prior to mating, locate the guidance ribs and align the header. Do not apply excessive force during the mating process as it may damage the contacts.</p> |
|                                                    | <p>Make sure that the connector is parallel to the other side, then press it down until it is fully mated while maintaining the angle.</p>                   |

●Handling precautions for unmating

|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                            | <p>To unmate this connector, lift evenly across the header. Make sure that each side of the connector stays parallel to the other.</p>                                                                                                                                                                                                                                                                                |
|  <p>Pitch direction</p>  | <p>If circumstances prevent the connectors from staying parallel to each other, then one side may be lifted as shown in the diagram. This method is only approved if the connector is mounted onto an extremely rigid circuit board. If the board were to warp during this process it may result in damage to the connector or its solder joints.</p>                                                                 |
|  <p>Corner direction</p> | <p>Do not try to disconnect these connectors by pulling on one side or a single corner, or to unmate it when it hasn't been securely mounted onto a rigid FPC. These actions may lead to deformities and ultimately a damaged connector. Prior to the mounting of these connectors we recommend that you check the rigidity of your FPC to ensure that it meets the standards needed to support these connectors.</p> |
|                          | <p>If the FPC is not strong enough by itself, a stiffening backing may be applied. If the FPC has a low rigidity the connector may break (as shown in the illustration to the left). We recommend a backing of no less than 0.3mm of glass epoxy and 0.2mm of stainless material.</p>                                                                                                                                 |

MEMO :

Handwriting practice area consisting of 30 horizontal dashed lines.

## MEMO :

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