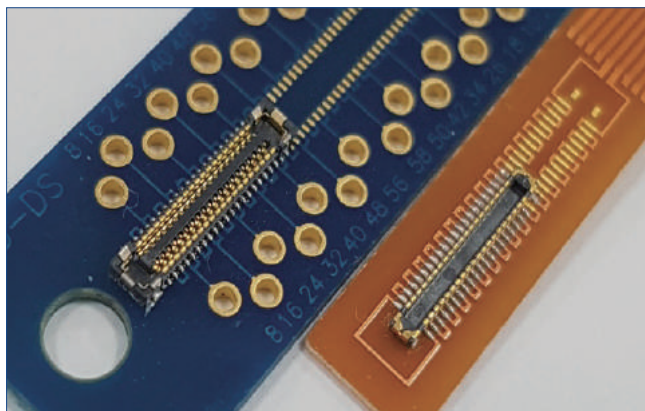


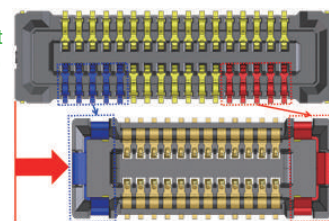
## BM23PF Series



### High current applicable

Conventional product  
(P=0.35mm, 34pos.)

BM23PF-24pos.  
(+2pos. for power)



Power lines are concentrated into 2 power contacts (Up to 5A/line) instead of conventional multiple signal contacts.

Fig.1

## ■ Features

### 1. Rated current : 5A

Equipped with power contacts capable of handling up to 5A current. (See Fig.1)

• Rated current : 5A (Power contact), 0.3A (Signal contact)

### 2. Space saving design

Compact design ideal for mobile devices. (See Fig.2)

• Pitch : 0.35mm, Width : 1.98mm, Stacking height : 0.8mm

### 3. Robust [Breaking Strength : 90N]

Metal guides prevent housing damage due to incorrect mating. (See Fig.3)

### 4. Highly reliable contact design

2-point contact design for both power and signal contact ensures high reliability. (See Fig.4)

### 5. Good mating operation

Wide self alignment range with metal guides offers enhanced mating operation.

(0.4mm in pitch direction, 0.35mm in width direction)

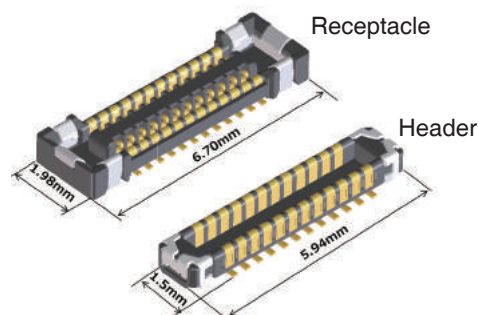
Furthermore, a clear tactile click generated by the unique locking contact design insures complete mating.

### 6. Supports USB 3.1 Gen.2 (10Gbps) transmission

Signal contacts support USB3.1 Gen.2 transmission speed.

### Space-saving

Dimension Example : 24 Pos.



The narrower and shorter, yet flexible design allows tight installation ( Pitch : 0.35mm, Width : 1.98mm )

Fig.2

### Robust design

Metal guide prevents connector damage even if mated incorrectly.

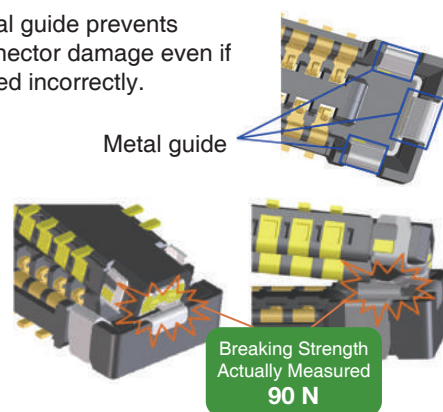


Fig.3

## ■ Environmental

• Halogen-free\*

As defined by IEC 61249-2-21

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

Br+Cl : 1,500ppm max.

### Cross-sectional view of mated contacts

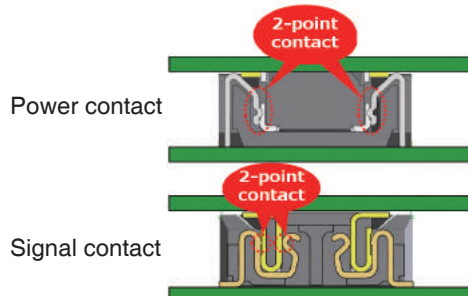


Fig.4

## Product Specifications

| Ratings | Rated current | Signal contact : 0.3A (Note1)<br>Power contact : 5A | Operating temperature range | -55°C to 85°C (Note2) | Storage temperature range | -10°C to 60°C (Note3) |
|---------|---------------|-----------------------------------------------------|-----------------------------|-----------------------|---------------------------|-----------------------|
|         | Rated voltage | 30V AC/DC                                           | Operating humidity range    | 20% to 80%            | Storage humidity range    | 40% to 70% (Note3)    |

| Items                        | Specifications                                                                                                    | Conditions                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1. Contact resistance        | Signal contact : 90mΩ max.<br>Power contact : 30mΩ max.                                                           | Measured at 20mV AC, 1kHz, and 1mA                                                                                         |
| 2. Insulation resistance     | 50MΩ min.                                                                                                         | Measured at 100V DC                                                                                                        |
| 3. Withstanding voltage      | No flashover or insulation breakdown                                                                              | 100V AC for 1 minute                                                                                                       |
| 4. Durability                | Contact resistance : Signal contact : 90mΩ max.<br>Power contact : 30mΩ max.                                      | 10 mating cycles                                                                                                           |
| 5. Vibration                 | No electrical discontinuity for more than 1μs.                                                                    | Frequency: 10 to 55Hz, single amplitude : 0.75mm in 3 axis directions for 5 minutes, 10 cycles                             |
| 6. Shock resistance          | No electrical discontinuity of 1μs or more.                                                                       | Acceleration : 490m/s <sup>2</sup> , duration of pulse: 11ms at 3 times for 3 directions.                                  |
| 7. Humidity                  | Contact resistance : Signal contact : 90mΩ max.<br>Power contact : 30mΩ max.<br>Insulation resistance : 25MΩ min. | 96 hours at temperature of 40±2°C and a humidity range from 90 to 95%                                                      |
| 8. Temperature cycle         | Contact resistance : Signal contact : 90mΩ max.<br>Power contact : 30mΩ max.<br>Insulation resistance : 50MΩ min. | -55°C for 30minutes → 85°C for 30minutes, 5 cycles                                                                         |
| 9. Soldering heat resistance | No dissolution or melting of the resin that will affect the performance.                                          | Reflow : with recommended temperature profile;<br>Hand soldering at soldering iron temperature of 350°C for 3 seconds max. |

Note 1 : The total current capacity for the connector with 40 or more signal contacts is 12A for all contacts.(Signal contact only)

Note 2 : Includes temperature rise caused by current flow.

Note 3 : Storage refers to long-term-storage of unused items before they are mounted on the PCB.

Operating temperature/humidity range applies to the state of temporary storage such as non-powered after mounting on the PCB, and during transportation, etc.

## Materials / Finish

| Product           | Part           | Material     | Finish       | UL Regulation |
|-------------------|----------------|--------------|--------------|---------------|
| Receptacle Header | Insulator      | LCP          | Black        | UL94V-0       |
|                   | Signal Contact | Copper alloy | Gold plating | —             |
|                   | Power Contact  | Copper alloy | Gold plating | —             |

## 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.

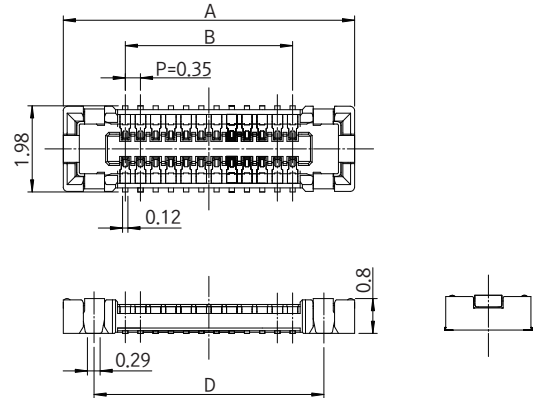
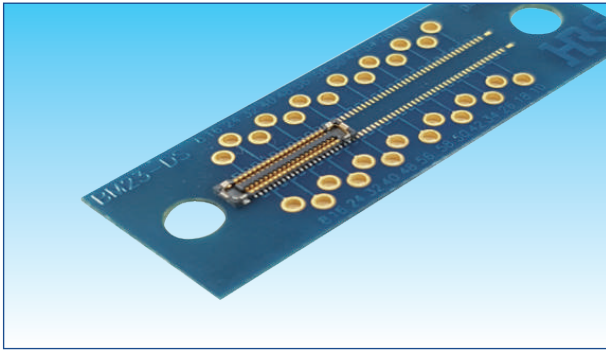
### ● Receptacle / Header

**BM 23 PF 0.8 - \* DS - 0.35 V (\*\*\*)**

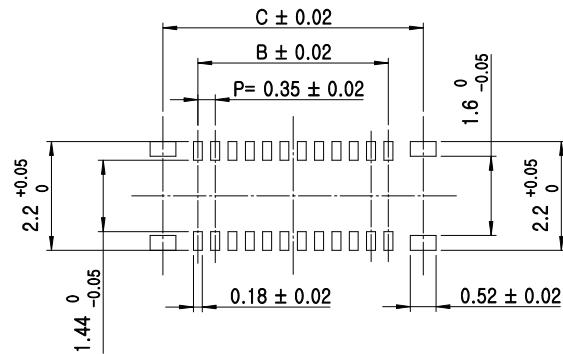
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

|                                           |                                                                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① Series Name: BM                         | ⑥ Connector Type<br>DS: Receptacle<br>DP: Header                                                                                                                                                                    |
| ② Series No. : 23                         | ⑦ Contact Pitch : 0.35mm                                                                                                                                                                                            |
| ③ Shape Symbols<br>PF: Power contact type | ⑧ Terminal type<br>V : Straight SMT                                                                                                                                                                                 |
| ④ Stacking Height : 0.8mm                 | ⑨ Gold plated specification and packaging status<br>(51) : Gold plate thickness 0.05μm<br>Embossed tape packaging(10,000pcs/reel)<br>(895) : Gold plate thickness 0.05μm<br>Embossed tape packaging (1,000pcs/reel) |
| ⑤ Number of Contacts                      |                                                                                                                                                                                                                     |

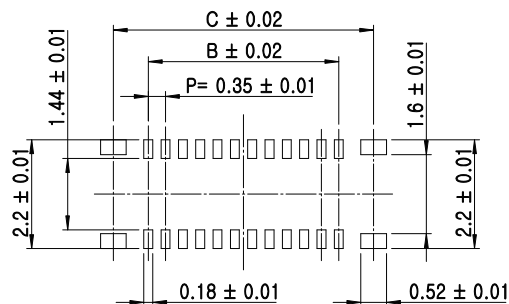
## ■ Receptacle



## ◆ Recommended PCB layout



## ◆ Recommended metal mask dimensions (mask thickness : 100μm)



Unit : mm

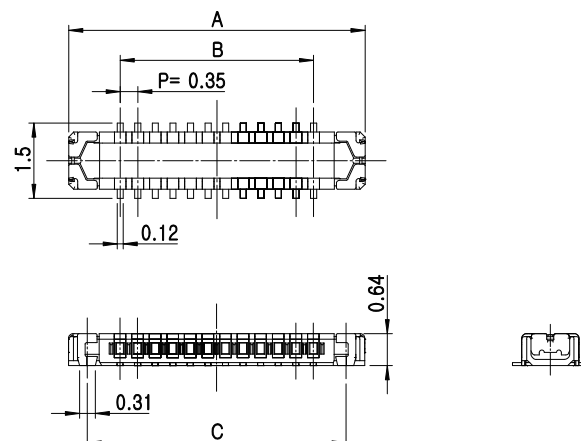
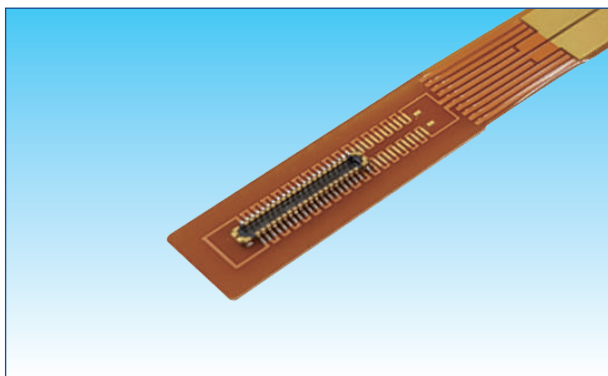
| Part No.                  | HRS No.       | No. of contacts | A     | B    | C     | D     |
|---------------------------|---------------|-----------------|-------|------|-------|-------|
| BM23PF0.8-10DS-0.35V(***) | 480-0312-0 ** | 10              | 4.25  | 1.40 | 2.81  | 2.84  |
| BM23PF0.8-14DS-0.35V(***) | 480-0367-0 ** | 14              | 4.95  | 2.10 | 3.51  | 3.54  |
| BM23PF0.8-20DS-0.35V(***) | 480-0434-0 ** | 20              | 6.00  | 3.15 | 4.56  | 4.59  |
| BM23PF0.8-24DS-0.35V(***) | 480-0368-0 ** | 24              | 6.70  | 3.85 | 5.26  | 5.29  |
| BM23PF0.8-30DS-0.35V(***) | 480-0472-0 ** | 30              | 7.75  | 4.90 | 6.31  | 6.34  |
| BM23PF0.8-40DS-0.35V(***) | 480-0369-0 ** | 40              | 9.50  | 6.65 | 8.06  | 8.09  |
| BM23PF0.8-42DS-0.35V(***) | 480-0436-0 ** | 42              | 9.85  | 7.00 | 8.41  | 8.44  |
| BM23PF0.8-46DS-0.35V(***) | 480-0402-0 ** | 46              | 10.55 | 7.70 | 9.11  | 9.14  |
| BM23PF0.8-54DS-0.35V(***) | 480-0370-0 ** | 54              | 11.95 | 9.10 | 10.51 | 10.54 |

Note 1 : Please place orders in full reel quantities.

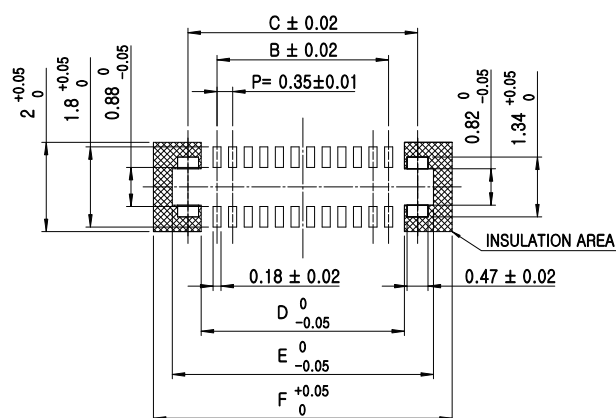
Note 2 : This connector has no polarity.

Note 3 : The specification number(895) in the Part No. changes to(95) in the HRS No.

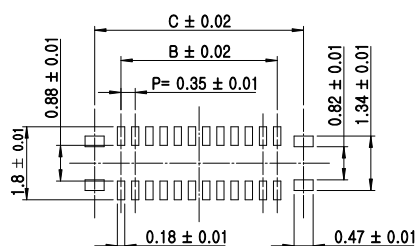
## Header



## Recommended PCB layout



## Recommended metal mask dimensions (mask thickness : 100μm)



Unit : mm

| Part No.                  | HRS No.       | No. of contacts | A     | B    | C     | D    | E     | F     |
|---------------------------|---------------|-----------------|-------|------|-------|------|-------|-------|
| BM23PF0.8-10DP-0.35V(***) | 480-0306-0 ** | 10              | 3.49  | 1.40 | 2.70  | 2.11 | 3.41  | 4.25  |
| BM23PF0.8-14DP-0.35V(***) | 480-0366-0 ** | 14              | 4.19  | 2.10 | 3.40  | 2.81 | 4.11  | 4.95  |
| BM23PF0.8-20DP-0.35V(***) | 480-0433-0 ** | 20              | 5.24  | 3.15 | 4.45  | 3.86 | 5.16  | 6.00  |
| BM23PF0.8-24DP-0.35V(***) | 480-0291-0 ** | 24              | 5.94  | 3.85 | 5.15  | 4.56 | 5.86  | 6.70  |
| BM23PF0.8-30DP-0.35V(***) | 480-0426-0 ** | 30              | 6.99  | 4.90 | 6.20  | 5.61 | 6.91  | 7.75  |
| BM23PF0.8-40DP-0.35V(***) | 480-0317-0 ** | 40              | 8.74  | 6.65 | 7.95  | 7.36 | 8.66  | 9.50  |
| BM23PF0.8-42DP-0.35V(***) | 480-0435-0 ** | 42              | 9.09  | 7.00 | 8.30  | 7.71 | 9.01  | 9.85  |
| BM23PF0.8-46DP-0.35V(***) | 480-0401-0 ** | 46              | 9.79  | 7.70 | 9.00  | 8.41 | 9.71  | 10.55 |
| BM23PF0.8-54DP-0.35V(***) | 480-0303-0 ** | 54              | 11.19 | 9.10 | 10.40 | 9.81 | 11.11 | 11.95 |

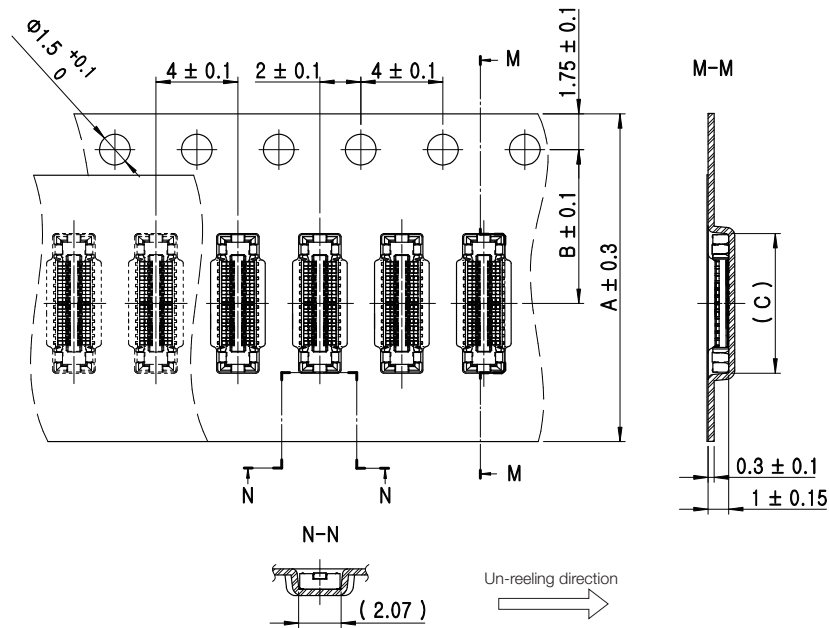
Note 1 : Please place orders in full reel quantities.

Note 2 : This connector has no polarity.

Note 3 : The specification number(895) in the Part No. changes to(95) in the HRS No.

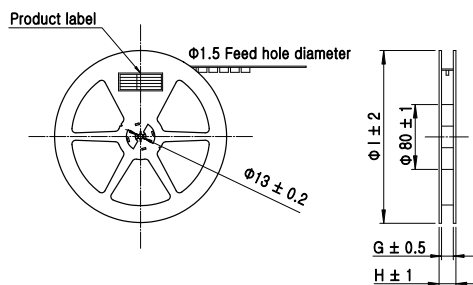
## ◆ Embossed Tape Dimensions (IEC 602286-3, with JIC C 0806)

### ● Receptacle

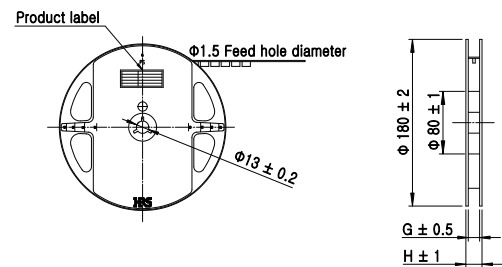


### ● Reel Dimensions

► 10,000pcs/reel



► 1,000pcs/reel



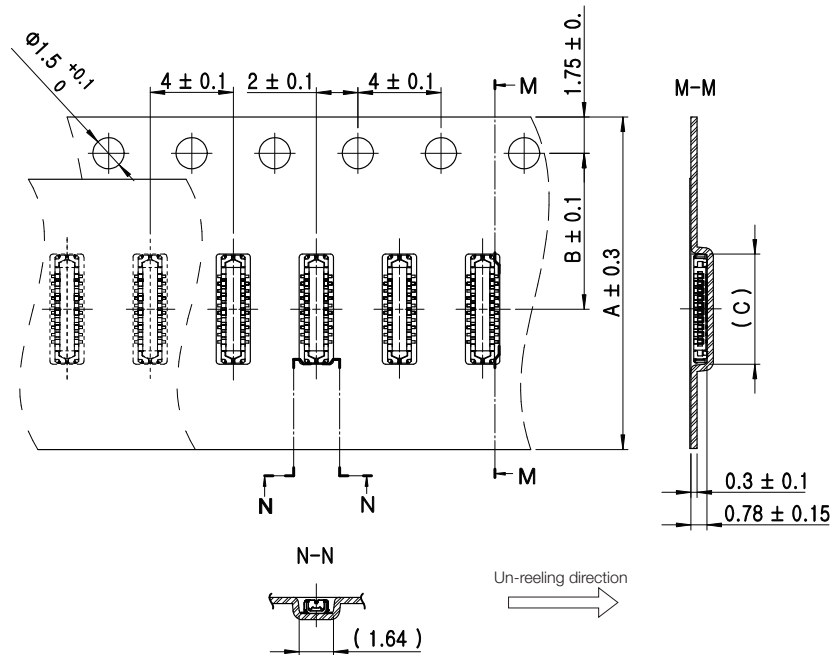
Unit : mm

| Part No.                  | HRS No.       | No. of contacts | A  | B    | C     | G    | H    | I   |
|---------------------------|---------------|-----------------|----|------|-------|------|------|-----|
| BM23PF0.8-10DS-0.35V(***) | 480-0312-0 ** | 10              | 16 | 7.5  | 4.36  | 17.5 | 21.5 | 330 |
| BM23PF0.8-14DS-0.35V(***) | 480-0367-0 ** | 14              | 16 | 7.5  | 5.06  | 17.5 | 21.5 | 330 |
| BM23PF0.8-20DS-0.35V(***) | 480-0434-0 ** | 20              | 16 | 7.5  | 6.11  | 17.5 | 21.5 | 330 |
| BM23PF0.8-24DS-0.35V(***) | 480-0368-0 ** | 24              | 16 | 7.5  | 6.81  | 17.5 | 21.5 | 330 |
| BM23PF0.8-30DS-0.35V(***) | 480-0472-0 ** | 30              | 16 | 7.5  | 7.86  | 17.5 | 21.5 | 330 |
| BM23PF0.8-40DS-0.35V(***) | 480-0369-0 ** | 40              | 24 | 11.5 | 9.61  | 25.5 | 29.5 | 330 |
| BM23PF0.8-42DS-0.35V(***) | 480-0436-0 ** | 42              | 24 | 11.5 | 9.96  | 25.5 | 29.5 | 330 |
| BM23PF0.8-46DS-0.35V(***) | 480-0402-0 ** | 46              | 24 | 11.5 | 10.66 | 25.5 | 29.5 | 330 |
| BM23PF0.8-54DS-0.35V(***) | 480-0370-0 ** | 54              | 24 | 11.5 | 12.06 | 25.5 | 29.5 | 330 |

Note 1 : The specification number(895) in the Part No. changes to(95) in the HRS No.

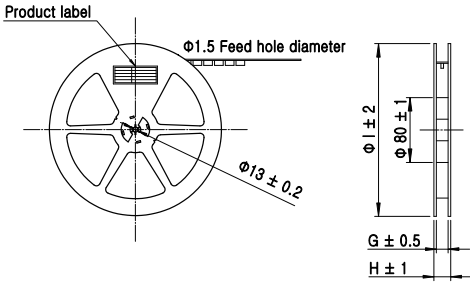
◆ Embossed Tape Dimensions (IEC 602286-3, with JIC C 0806)

● Header

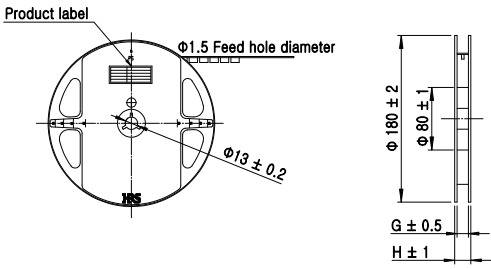


● Reel Dimensions

▶ 10,000pcs/reel



▶ 1,000pcs/reel

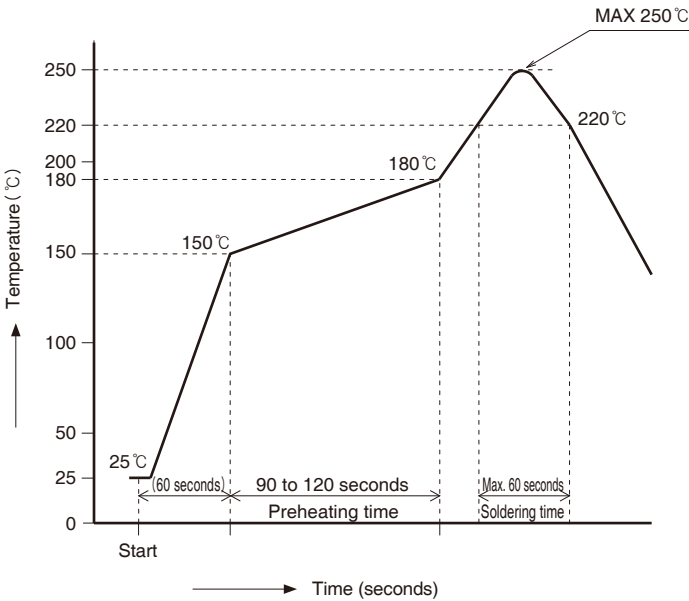


Unit : mm

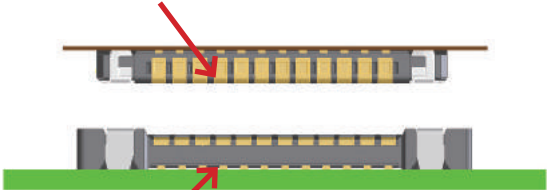
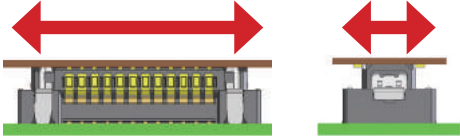
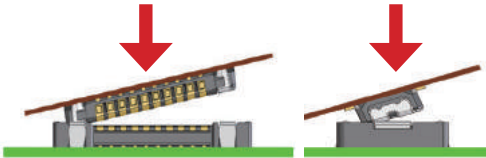
| Part No.                  | HRS No.       | No. of contacts | A  | B    | C     | G    | H    | I   |
|---------------------------|---------------|-----------------|----|------|-------|------|------|-----|
| BM23PF0.8-10DP-0.35V(***) | 480-0306-0 ** | 10              | 12 | 5.5  | 3.65  | 13.5 | 17.5 | 330 |
| BM23PF0.8-14DP-0.35V(***) | 480-0366-0 ** | 14              | 16 | 7.5  | 4.35  | 17.5 | 21.5 | 330 |
| BM23PF0.8-20DP-0.35V(***) | 480-0433-0 ** | 20              | 16 | 7.5  | 5.4   | 17.5 | 21.5 | 330 |
| BM23PF0.8-24DP-0.35V(***) | 480-0291-0 ** | 24              | 16 | 7.5  | 6.10  | 17.5 | 21.5 | 330 |
| BM23PF0.8-30DP-0.35V(***) | 480-0426-0 ** | 30              | 16 | 7.5  | 7.15  | 17.5 | 21.5 | 330 |
| BM23PF0.8-40DP-0.35V(***) | 480-0317-0 ** | 40              | 24 | 11.5 | 8.90  | 25.5 | 29.5 | 330 |
| BM23PF0.8-42DP-0.35V(***) | 480-0435-0 ** | 42              | 24 | 11.5 | 9.25  | 25.5 | 29.5 | 330 |
| BM23PF0.8-46DP-0.35V(***) | 480-0401-0 ** | 46              | 24 | 11.5 | 9.95  | 25.5 | 29.5 | 330 |
| BM23PF0.8-54DP-0.35V(***) | 480-0303-0 ** | 54              | 24 | 11.5 | 11.35 | 25.5 | 29.5 | 330 |

Note 1: The specification number(895) in the Part No. changes to(95) in the HRS No.

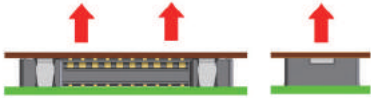
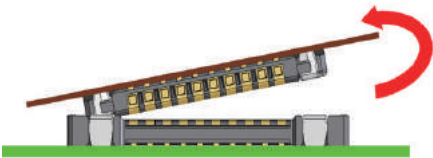
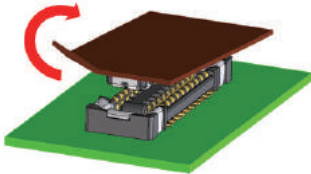
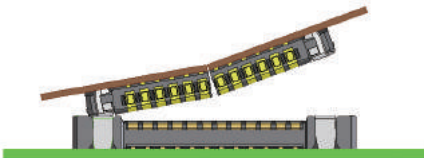
## Precautions

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Recommended solder temperature profile                               |  <p><b>[Conditions]</b></p> <ol style="list-style-type: none"> <li>1. Peak temperature : Maximum of 250°C</li> <li>2. Heat section : 220°C min., within 60 seconds</li> <li>3. Preheat section : 150 to 180°C, 90 to 120 seconds</li> <li>4. Number of reflow cycles : Maximum of 2 cycles</li> </ol> <p>Note 1 : The temperature is the surface temperature of the PCB in the vicinity of the connector lead part.<br/> Note 2 : When using nitrogen reflow process, please mount the product with the oxygen concentration at a minimum of 1,000[ppm].<br/> Please contact Hirose if the concentration is below 1,000[ppm]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2. Recommended manual soldering conditions                              | Soldering iron temperature: 340±10°C<br>Soldering time : within 3 seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3. Recommended screen thickness and open area ratio to PCB pattern area | Thickness : 0.1mm<br>Aperture ratio : 100% on the DS side, 100% on the DP side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4. Warpage of the PCB                                                   | A maximum of 0.02mm at the center part of the connector on both ends of the connector.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5. Cleaning                                                             | Not recommended. If this product is cleaned, please evaluate the performance before using it. Cleaning may cause a change in the mating/unmating properties as well as environmental resistance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6. Notes                                                                | <ul style="list-style-type: none"> <li>■ Care should be taken when mating/unmating the connector and when it is not mounted on the PCB. Damage or deformation of the contacts may occur.</li> <li>■ Avoid supporting the PCB only with the connectors. Support it by other means such as bolts, screws, posts, etc.</li> <li>■ Care should be taken to avoid excessive prying mating/unmating that could cause damage.</li> <li>■ During manual soldering, do not apply flux which will cause flux oozing on connector.</li> <li>■ This product may have slight color differences due to production lot variability, but this does not have any effect on the performance.</li> <li>■ Please refer to the next page for precautions regarding mating/unmating.</li> <li>■ Because the product can disengage if dropped (or other impact), and by FPC routing, it is advised to secure the mated connectors to the board with housings and cushioning materials.</li> <li>■ Caution! 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.<br/>Refer to the specifications and the guidelines for board pattern dimensions, board cautions, and connector treatment.<br/>Please contact Hirose if using the connector under conditions other than those described in the specifications and the guidelines is being considered.</li> </ul> |

● Handle with care when mating a connector

|                                                                                                                                                                                                                                     |                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>BM23PF0.8-~DP-0.35V</div><div>BM23PF0.8-~DS-0.35V</div></div>                                                                            |                                                                                                                                                                                                                        |
| <div>Alignment method</div> <div><div>OK</div><div>NG</div></div> | <p>When aligning, look for the guide port without applying excessive force.<br/>Caution! If excessive force is applied, the connector could crack or be shaved which could lead to a defect in contact resistance.</p> |
| <div>Guiding condition</div>  <div>Mated condition</div>      | <p>When guided, the connectors are aligned parallel to each other with longitudinal and lateral movements restricted. Mate them parallel to each other.</p>                                                            |

● Handle with care when un-mating connectors

|                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="164 300 252 353">OK</div> <div data-bbox="311 280 683 376"></div>                                                              | <p>Un-mate connectors parallel to each other.</p>                                                                                                                                                                                                                                                                                                    |
| <div data-bbox="164 611 252 665">OK</div> <div data-bbox="276 521 710 678"></div> <div data-bbox="400 736 552 761">Pitch direction</div>       | <p>If the connector cannot be un-mated parallel, it can be removed diagonally from the pitch direction, as shown in the left figure. However, the connector can be broken if the FPC is not rigid. Please confirm rigidity of the FPC at the time of trial production.</p>                                                                           |
| <div data-bbox="164 987 252 1041">NG</div> <div data-bbox="343 913 655 1086"></div> <div data-bbox="391 1120 563 1144">Corner direction</div> | <p>Do not pull from the corner. If it is pulled from the corner as shown in the left figure, the contact and connector could be damaged.</p>                                                                                                                                                                                                         |
| <div data-bbox="164 1328 252 1382">NG</div> <div data-bbox="282 1256 707 1413"></div>                                                        | <p>Please provide a reinforcing plate for the FPC.<br/>If the rigidity of the FPC is not sufficient, the connector may break as shown in the left figure. Please check the action of the FPC to be used repeatedly.<br/>A reinforcing plate of 0.3mm or thicker made of glass epoxy material, or 0.2mm or thicker stainless steel is recommended</p> |

## This image shows a full page of white paper designed for handwriting practice. It features approximately 20 evenly spaced, horizontal dashed lines that run across the entire width of the page. There are no margins, text, or other markings present.

## This image shows a full page of a handwriting practice worksheet. It consists of numerous horizontal dashed lines spaced evenly across the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. HEADQUARTERS CHICAGO OFFICE**  
2300 Warrenville Road, Suite 150,  
Downers Grove, IL 60515  
Phone : +1-630-282-6700  
<http://www.hirose.com/us/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. BOSTON OFFICE**  
300 Brickstone Square Suite 201,  
Andover, MA 01810  
Phone : +1-978-662-5255

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. NUREMBERG OFFICE**  
Neumeyerstrasse 22-26, 90411 Nurnberg  
Phone : +49-911 32 68 89 63  
Fax : +49-911 32 68 89 69  
<http://www.hirose.com/eu/>

**UNITED KINGDOM:**

**HIROSE ELECTRIC EUROPE BV (UK BRANCH)**  
4 Newton Court, Kelvin Drive, Knowlhill,  
Milton Keynes, MK5 8NH  
Phone : +44-1908 202050  
Fax : +44-1908 202058  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC TECHNOLOGIES (SHENZHEN) CO., LTD.**  
Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre,  
5002 Shen Nan Dong Road, Shenzhen City, Guangdong Province, 518008  
Phone : +86-755-8207-0851  
Fax : +86-755-8207-0873  
<http://www.hirose.com/cn/>

**KOREA:**

**HIROSE KOREA CO., LTD.**  
143, Gongdan 1-daero, Siheung-si,  
Gyeonggi-do, 15084, Korea  
Phone : +82-31-496-7000  
Fax : +82-31-496-7100  
<http://www.hirose.co.kr/>

**INDIA:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE**  
Unit No-403, 4th Floor, No-84, Barton Centre, Mahatma  
Gandhi (MG) Road, Bangalore 560 001, Karnataka, India  
Phone : +91-80-4120 1907  
Fax : +91-80-4120 9908  
<http://www.hirose.com/sg/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. SAN JOSE OFFICE**  
2841 Junction Ave, Suite 200  
San Jose, CA. 95134  
Phone : +1-408-253-9640  
Fax : +1-408-253-9641  
<http://www.hirose.com/us/>

**THE NETHERLANDS:**

**HIROSE ELECTRIC EUROPE B.V.**  
Hogehillweg #8 1101 CC Amsterdam Z-O  
Phone : +31-20-6557460  
Fax : +31-20-6557469  
<http://www.hirose.com/eu/>

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. HANOVER OFFICE**  
Bayernstr. 3, Haus C 30855 Langenhagen, Germany  
Phone : +49-511 97 82 61 30  
Fax : +49-511 97 82 61 35  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC (SHANGHAI) CO., LTD.**  
18, Enterprise Center Tower 2, 209# Gong He  
Road, Jing'an District, Shanghai, CHINA 200070  
Phone : +86-21-6391-3355  
Fax : +86-21-6391-3335  
<http://www.hirose.com/cn/>

**HONG KONG:**

**HIROSE ELECTRIC HONGKONG TRADING CO., LTD.**  
Room 1001, West Wing, Tsim Sha Tsui Centre, 66  
Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong  
Phone : +852-2803-5338  
Fax : +852-2591-6560  
<http://www.hirose.com/hk/>

**SINGAPORE:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD.**  
03, Anson Road, #20-01, Springleaf Tower,  
Singapore 079909  
Phone : +65-6324-6113  
Fax : +65-6324-6123  
<http://www.hirose.com/sg/>

**MALAYSIA:**

**PENANG REPRESENTATIVE OFFICE**  
73-3-1, Ideal@The One, Jalan Mahsuri, Bayan  
Lepas Penang, 11950, Malaysia  
Phone : +604-648-5536  
<http://www.hirose.com/sg/>

**USA:**

**HIROSE ELECTRIC (U.S.A.), INC. DETROIT OFFICE (AUTOMOTIVE)**  
17197 N. Laurel Park Drive, Suite 253,  
Livonia, MI 48152  
Phone : +1-734-542-9963  
Fax : +1-734-542-9964  
<http://www.hirose.com/us/>

**GERMANY:**

**HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH**  
Schoenbergstr. 20, 73760 ostfildern  
Phone : +49-711-456002-1  
Fax : +49-711-456002-299  
<http://www.hirose.com/eu/>

**FRANCE:**

**HIROSE ELECTRIC EUROPE B.V. PARIS OFFICE**  
130 Avenue Joseph Kessel, Bat E, 78960  
Voisins le Bretonneux, France  
Phone : +33-1-85764886  
Fax : +33-1-85764823  
<http://www.hirose.com/eu/>

**CHINA:**

**HIROSE ELECTRIC (SHANGHAI) CO., LTD. BEIJING BRANCH**  
A1001, Ocean International Center, Building 56# East 4th  
Ring Middle Road, ChaoYang District, Beijing, 100025  
Phone : +86-10-5165-9332  
Fax : +86-10-5908-1381  
<http://www.hirose.com/cn/>

**TAIWAN:**

**HIROSE ELECTRIC TAIWAN CO., LTD.**  
103 8F, No.87, Zhengzhou Rd., Taipei  
Phone : +886-2-2555-7377  
Fax : +886-2-2555-7350  
<http://www.hirose.com/tw/>

**INDIA:**

**HIROSE ELECTRIC SINGAPORE PTE. LTD. DELHI LIAISON OFFICE**  
Office NO.552, Regus-Green Boulevard, Level5, Tower C,  
Sec62, Plot B-9A, Block B, Noida, 201301, Uttar Pradesh, India  
Phone : +91-12-660-8018  
Fax : +91-120-4804949  
<http://www.hirose.com/sg/>

**THAILAND:**

**BANGKOK OFFICE (REPRESENTATIVE OFFICE)**  
Unit 4703, 47th FL., 1 Empire Tower, South Sathorn  
Road, Yannawa, Sathorn, Bangkok 10120 Thailand  
Phone : +66-2-686-1255  
Fax : +66-2-686-3433  
<http://www.hirose.com/sg/>



## HIROSE ELECTRIC CO.,LTD.

2-6-3, Nakagawa Chuoh, Tsuzuki-Ku, Yokohama-Shi 224-8540, JAPAN  
TEL: +81-45-620-3526 Fax: +81-45-591-3726  
<http://www.hirose.com>  
<http://www.hirose-connectors.com>