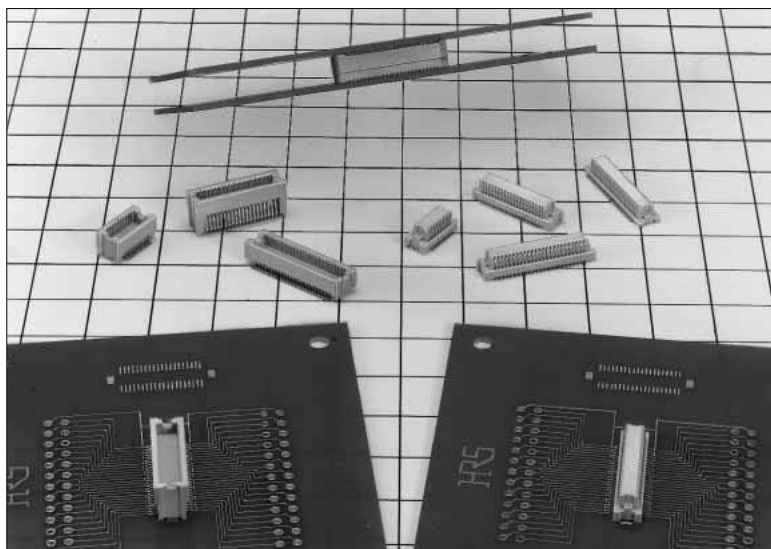


# 0.65mm Pitch SMT Board to Board Connector

## DF15 Series



### Corresponding to automatic mounting

The vacuum area is secured the automatic mounting machine for vacuum.

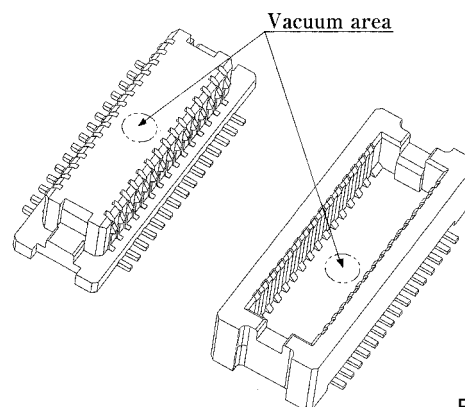


Figure 1

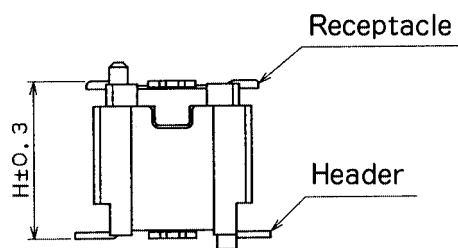
## ■Features

### 1. Compatibility of Miniaturization with Service Efficiency

This series considers the service efficiency to set the pitch to 0.65mm, corresponding to the 0.5mm pitch DF12 series. This connector widely covers the definition of the mounting space or the board to board size together with the DF12 series.

### 2. Broad Variations in Board to Board Size

The board to board size is specified at 1mm step between 4mm and 8mm.



| Header/Receptacle    | DF15#(0.8)-*DS-0.65V<br>Combinnation with H size | DF15#(1.8)-*DS-0.65V<br>Combinnation with H size |
|----------------------|--|--|
| DF15#(3.2)-*DP-0.65V | 4  | 5  |
| DF15#(4.2)-*DP-0.65V | 5  | 6  |
| DF15#(6.2)-*DP-0.65V | 7  | 8  |

Note1: The stacking height is determined by adding the header and receptacle to the figures followed by the product name DF15#.

Note2: The stacking height (H size) doesn't include the soldering paste thickness.

### 3. Correspond to Automatic Mounting

The connector has the vacuum area, which enables the automatic mounting by the embossed tape packaging.

### 4. Metal Fitting Available

The product including the metal fitting to prevent solder peeling is prepared, considering the mounting on FPC.

## ■Applications

Mobile phone, LCD(Liquid Crystal Display), MO(Optical Disk), Note PC

|        |                         |  |  |
|--------|-------------------------|--|--|
| Rating | Current rating : 0.3A   | Operating Temperature Range : -35 to +85°C (Note 1.) | Storage Temperature Range : -10 to +60°C (Note 2.) |
|        | Voltage rating : 50V AC | Operating Humidity Range : 40 to 80%                 | Storage Humidity Range : 40 to 70% (Note 2.)       |

Note 1: Includes temperature rise caused by current flow.  
 Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.  
 Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

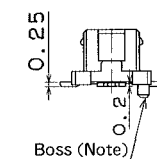
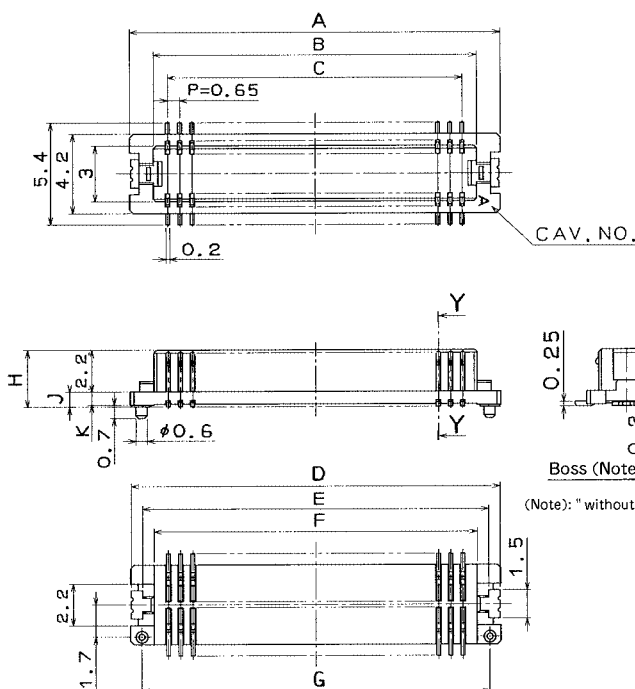
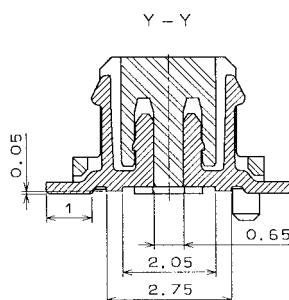
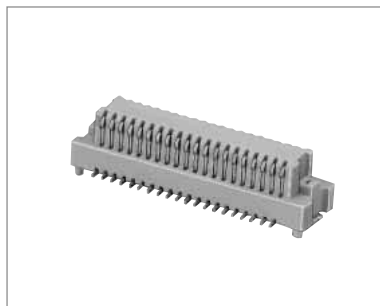
| Product    | Part          | Material        | Finish      | Remarks |
|------------|---------------|-----------------|-------------|---------|
| Receptacle | Insulator     | Polyamide       | Beige       | UL94V-0 |
|            | Contact       | Phosphor copper | Gold plated | ————    |
|            | Metal fitting | Brass           | Tin plated  | ————    |
| Header     | Insulator     | Polyamide       | Beige       | UL94V-0 |
|            | Contact       | Phosphor copper | Gold plated | ————    |
|            | Metal fitting | Brass           | Tin plated  | ————    |

## ■ Ordering Information

$$\frac{\text{DF15}}{\textcircled{1}} \frac{\#}{\textcircled{2}} \frac{(**)}{\textcircled{3}} - \frac{*}{\textcircled{4}} \frac{\text{DS}}{\textcircled{5}} - \frac{0.65}{\textcircled{6}} \frac{\text{V}}{\textcircled{7}} \frac{(**)}{\textcircled{8}}$$
HRS A157

# DF15 Series 0.65mm Pitch SMT Board to Board Connector

## ■Receptacle With metal fitting



(Note): "without boss" indicates the form with no boss.

[Specific No.] -\* \*, (\* \*)  
 (56) :Gold plated embossed tape packaging

## ●Product Height: 0.8mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F     | G     | H | J   | K   | Remarks                            | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|---|-----|-----|------------------------------------|------|
| DF15 (0.8)-20DS-0.65V(56) | 677-0002-0-56 | 20                 | 9.85  | 7.35  | 5.85  | 9.65  | 8.45  | 7.35  | 8.65  | 3 | 0.8 | 0.7 | With metal fitting<br>With boss    | YES  |
| DF15 (0.8)-30DS-0.65V(56) | 677-0003-3-56 | 30                 | 13.10 | 10.6  | 9.1   | 12.9  | 11.7  | 10.6  | 11.9  |   |     |     |                                    |      |
| DF15 (0.8)-40DS-0.65V(56) | 677-0004-6-56 | 40                 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | 15.15 |   |     |     |                                    |      |
| DF15 (0.8)-50DS-0.65V(56) | 677-0005-9-56 | 50                 | 19.60 | 17.1  | 15.6  | 19.4  | 18.2  | 17.1  | 18.4  |   |     |     |                                    |      |
| DF15B(0.8)-20DS-0.65V(56) | 677-0022-8-56 | 20                 | 9.85  | 7.35  | 5.85  | 9.65  | 8.45  | 7.35  | -     | 3 | 0.8 | 0.7 | With metal fitting<br>Without boss | YES  |
| DF15B(0.8)-30DS-0.65V(56) | 677-0023-0-56 | 30                 | 13.10 | 10.6  | 9.1   | 12.9  | 11.7  | 10.6  | -     |   |     |     |                                    |      |
| DF15B(0.8)-40DS-0.65V(56) | 677-0024-3-56 | 40                 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | -     |   |     |     |                                    |      |
| DF15B(0.8)-50DS-0.65V(56) | 677-0025-6-56 | 50                 | 19.60 | 17.1  | 15.6  | 19.4  | 18.2  | 17.1  | -     |   |     |     |                                    |      |

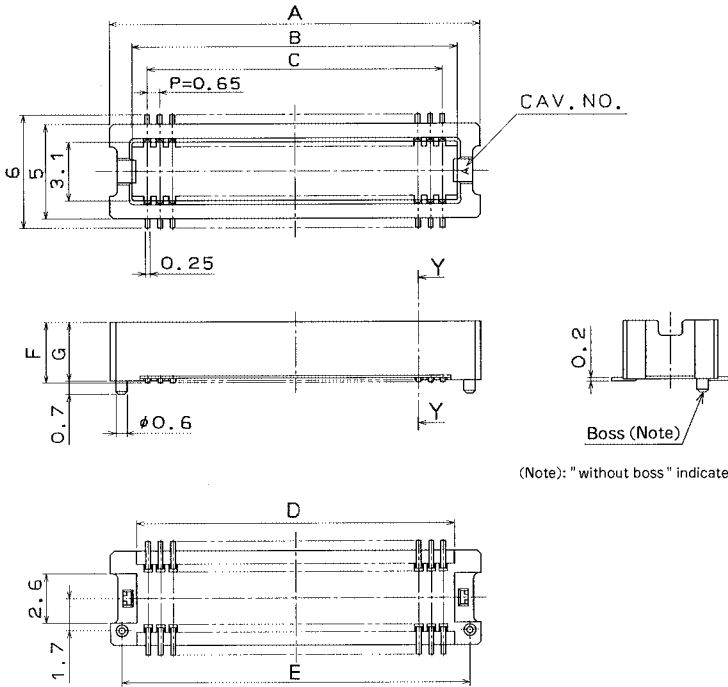
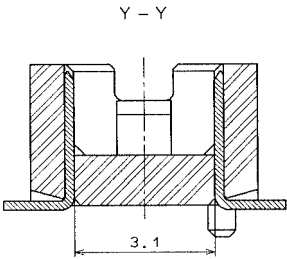
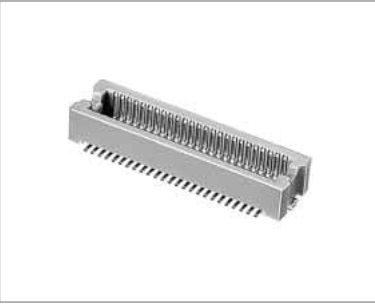
## ●Product Height: 1.8mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F     | G     | H | J   | K   | Remarks                            | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|---|-----|-----|------------------------------------|------|
| DF15 (1.8)-20DS-0.65V(56) | 677-0042-5-56 | 20                 | 9.85  | 7.35  | 5.85  | 9.65  | 8.45  | 7.35  | 8.65  | 4 | 1.8 | 1.7 | With metal fitting<br>With boss    | YES  |
| DF15 (1.8)-30DS-0.65V(56) | 677-0043-8-56 | 30                 | 13.1  | 10.6  | 9.1   | 12.9  | 11.7  | 10.6  | 11.9  |   |     |     |                                    |      |
| DF15 (1.8)-40DS-0.65V(56) | 677-0044-0-56 | 40                 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | 15.15 |   |     |     |                                    |      |
| DF15 (1.8)-50DS-0.65V(56) | 677-0045-3-56 | 50                 | 19.6  | 17.1  | 15.6  | 19.4  | 18.2  | 17.1  | 18.4  |   |     |     |                                    |      |
| DF15B(1.8)-20DS-0.65V(56) | 677-0062-2-56 | 20                 | 9.85  | 7.35  | 5.85  | 9.65  | 8.45  | 7.35  | -     | 4 | 1.8 | 1.7 | With metal fitting<br>Without boss | YES  |
| DF15B(1.8)-30DS-0.65V(56) | 677-0063-5-56 | 30                 | 13.1  | 10.6  | 9.1   | 12.9  | 11.7  | 10.6  | -     |   |     |     |                                    |      |
| DF15B(1.8)-40DS-0.65V(56) | 677-0064-8-56 | 40                 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | -     |   |     |     |                                    |      |
| DF15B(1.8)-50DS-0.65V(56) | 677-0065-0-56 | 50                 | 19.6  | 17.1  | 15.6  | 19.4  | 18.2  | 17.1  | -     |   |     |     |                                    |      |

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

Header Without metal fitting



(Note): "without boss" indicates the form with no boss.

[Specific No.] -\* \*, (\* \*)  
(56) :Gold plated embossed tape packaging

Product Height: 3.2mm Product

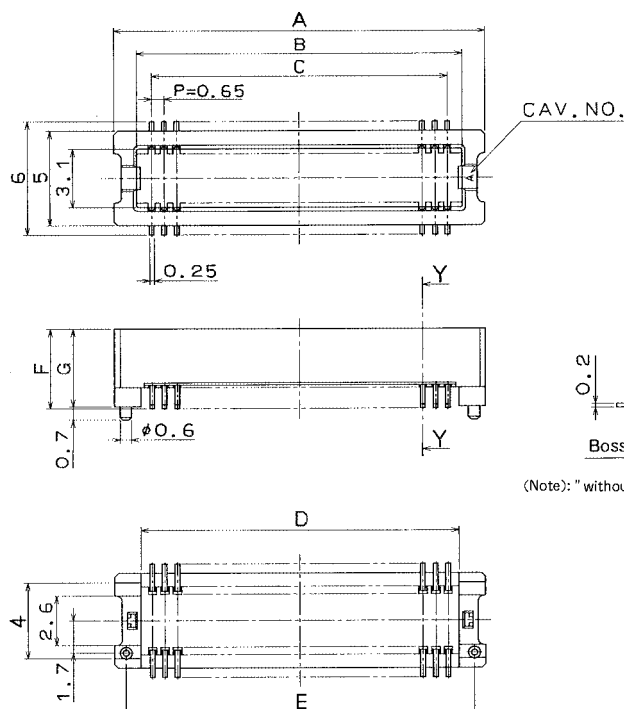
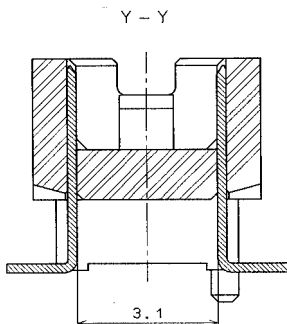
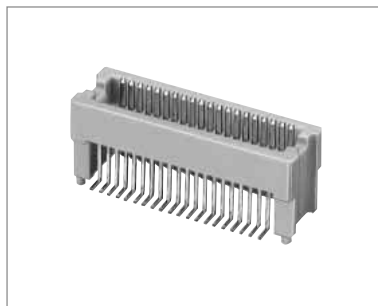
Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F   | G   | Remarks                               | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-----|-----|---------------------------------------|------|
| DF15A(3.2)-20DP-0.65V(56) | 677-0092-3-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | 8.65  | 3.2 | 3.1 | Without metal fitting<br>With boss    | YES  |
| DF15A(3.2)-30DP-0.65V(56) | 677-0093-6-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | 11.9  |     |     |                                       |      |
| DF15A(3.2)-40DP-0.65V(56) | 677-0094-9-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 |     |     |                                       |      |
| DF15A(3.2)-50DP-0.65V(56) | 677-0095-1-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | 18.4  |     |     |                                       |      |
| DF15C(3.2)-20DP-0.65V(56) | 677-0112-9-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | -     | 3.2 | 3.1 | Without metal fitting<br>Without boss | YES  |
| DF15C(3.2)-30DP-0.65V(56) | 677-0113-1-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | -     |     |     |                                       |      |
| DF15C(3.2)-40DP-0.65V(56) | 677-0114-4-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | -     |     |     |                                       |      |
| DF15C(3.2)-50DP-0.65V(56) | 677-0115-7-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | -     |     |     |                                       |      |

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

## DF15 Series 0.65mm Pitch SMT Board to Board Connector

### Header Without metal fitting



(Note): "without boss" indicates the form with no boss.

[Specific No.] -\* \*, (\* \*)  
 (56) :Gold plated embossed tape packaging

### Product Height: 4.2mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F   | G   | Remarks                               | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-----|-----|---------------------------------------|------|
| DF15A(4.2)-20DP-0.65V(56) | 677-0132-6-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | 8.65  | 4.2 | 4.1 | Without metal fitting<br>With boss    | YES  |
| DF15A(4.2)-30DP-0.65V(56) | 677-0133-9-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | 11.9  |     |     |                                       |      |
| DF15A(4.2)-40DP-0.65V(56) | 677-0134-1-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 |     |     |                                       |      |
| DF15A(4.2)-50DP-0.65V(56) | 677-0135-4-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | 18.4  |     |     |                                       |      |
| DF15C(4.2)-20DP-0.65V(56) | 677-0152-3-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | —     | 4.2 | 4.1 | Without metal fitting<br>Without boss | YES  |
| DF15C(4.2)-30DP-0.65V(56) | 677-0153-6-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | —     |     |     |                                       |      |
| DF15C(4.2)-40DP-0.65V(56) | 677-0154-9-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | —     |     |     |                                       |      |
| DF15C(4.2)-50DP-0.65V(56) | 677-0155-1-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | —     |     |     |                                       |      |

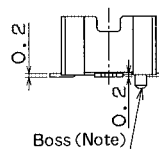
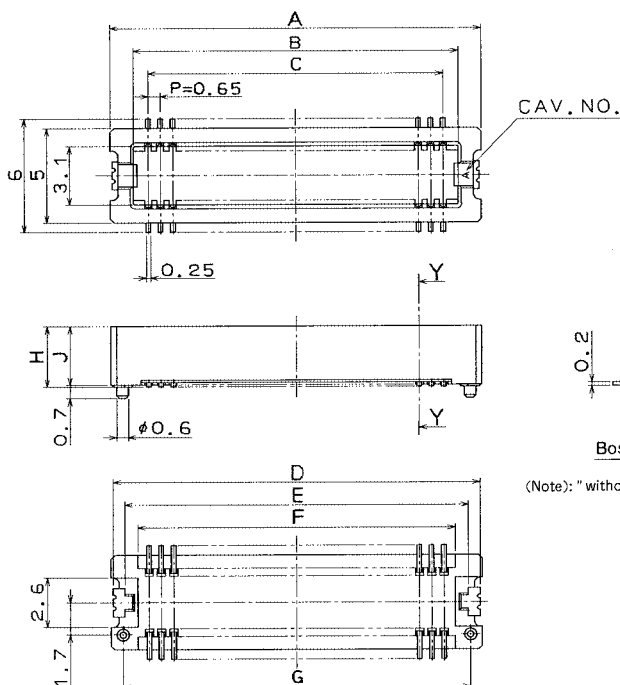
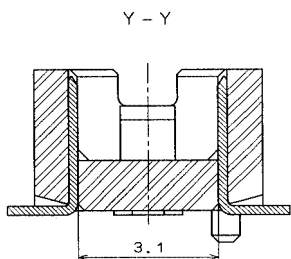
### Product Height: 6.2mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F   | G   | Remarks                               | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-----|-----|---------------------------------------|------|
| DF15A(6.2)-20DP-0.65V(56) | 677-0172-0-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | 8.65  | 6.2 | 6.1 | Without metal fitting<br>With boss    | YES  |
| DF15A(6.2)-30DP-0.65V(56) | 677-0173-3-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | 11.9  |     |     |                                       |      |
| DF15A(6.2)-40DP-0.65V(56) | 677-0174-6-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 |     |     |                                       |      |
| DF15A(6.2)-50DP-0.65V(56) | 677-0175-9-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | 18.4  |     |     |                                       |      |
| DF15C(6.2)-20DP-0.65V(56) | 677-0192-8-56 | 20                 | 9.85  | 7.45  | 5.85  | 7.05  | —     | 6.2 | 6.1 | Without metal fitting<br>Without boss | YES  |
| DF15C(6.2)-30DP-0.65V(56) | 677-0193-0-56 | 30                 | 13.1  | 10.7  | 9.1   | 10.3  | —     |     |     |                                       |      |
| DF15C(6.2)-40DP-0.65V(56) | 677-0194-3-56 | 40                 | 16.35 | 13.95 | 12.35 | 13.55 | —     |     |     |                                       |      |
| DF15C(6.2)-50DP-0.65V(56) | 677-0195-6-56 | 50                 | 19.6  | 17.2  | 15.6  | 16.8  | —     |     |     |                                       |      |

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

## Header With metal fitting



(Note): "without boss" indicates the form with no boss.

[Specific No.] - \* \*, (\* \*)  
 (56) : Gold plated embossed tape packaging

## Product Height: 3.2mm Product

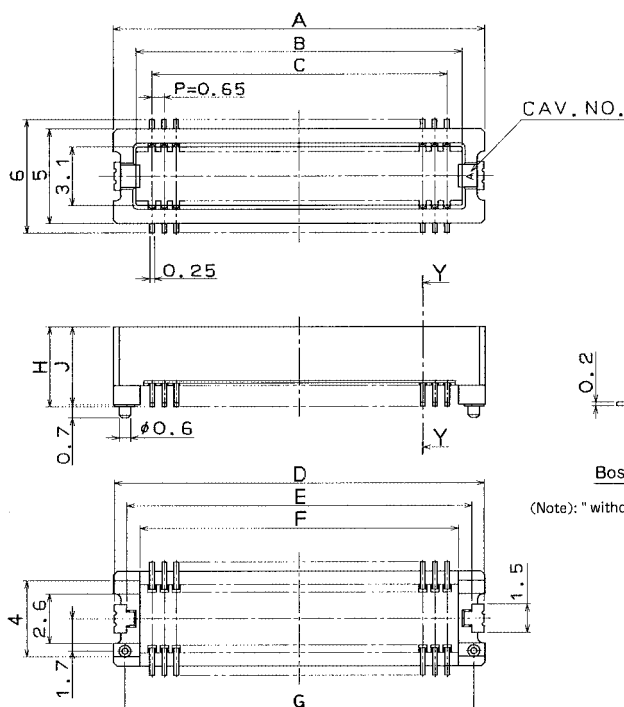
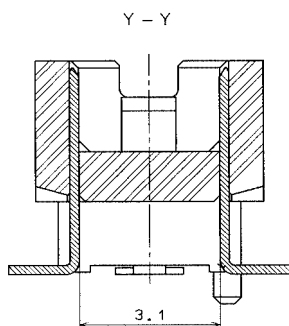
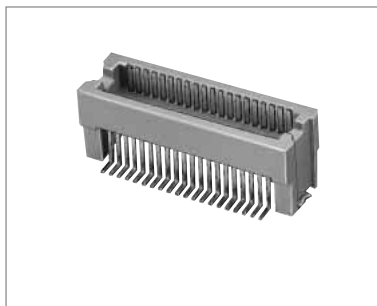
Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F     | G     | H   | J   | Remarks                            | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|------------------------------------|------|
| DF15 (3.2)-20DP-0.65V(56) | 677-0082-0-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | 8.65  | 3.2 | 3.1 | With metal fitting<br>With boss    | YES  |
| DF15 (3.2)-30DP-0.65V(56) | 677-0083-2-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | 11.9  |     |     |                                    |      |
| DF15 (3.2)-40DP-0.65V(56) | 677-0084-5-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | 15.15 |     |     |                                    |      |
| DF15 (3.2)-50DP-0.65V(56) | 677-0085-8-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | 18.4  |     |     |                                    |      |
| DF15B(3.2)-20DP-0.65V(56) | 677-0102-5-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | -     | 3.2 | 3.1 | With metal fitting<br>Without boss | YES  |
| DF15B(3.2)-30DP-0.65V(56) | 677-0103-8-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | -     |     |     |                                    |      |
| DF15B(3.2)-40DP-0.65V(56) | 677-0104-0-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | -     |     |     |                                    |      |
| DF15B(3.2)-50DP-0.65V(56) | 677-0105-3-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | -     |     |     |                                    |      |

Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)

# DF15 Series 0.65mm Pitch SMT Board to Board Connector

## Header With metal fitting



(Note): "without boss" indicates the form with no boss.

[Specific No.] -\* \*, (\* \*)  
 (56) :Gold plated embossed tape packaging

## Product Height: 4.2mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F     | G     | H   | J   | Remarks                            | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|------------------------------------|------|
| DF15 (4.2)-20DP-0.65V(56) | 677-0122-2-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | 8.65  | 4.2 | 4.1 | With metal fitting<br>With boss    | YES  |
| DF15 (4.2)-30DP-0.65V(56) | 677-0123-5-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | 11.9  |     |     |                                    |      |
| DF15 (4.2)-40DP-0.65V(56) | 677-0124-8-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | 15.15 |     |     |                                    |      |
| DF15 (4.2)-50DP-0.65V(56) | 677-0125-0-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | 18.4  |     |     |                                    |      |
| DF15B(4.2)-20DP-0.65V(56) | 677-0142-0-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | -     | 4.2 | 4.1 | With metal fitting<br>Without boss | YES  |
| DF15B(4.2)-30DP-0.65V(56) | 677-0143-2-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | -     |     |     |                                    |      |
| DF15B(4.2)-40DP-0.65V(56) | 677-0144-5-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | -     |     |     |                                    |      |
| DF15B(4.2)-50DP-0.65V(56) | 677-0145-8-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | -     |     |     |                                    |      |

## Product Height: 6.2mm Product

Unit: mm

| Part Number               | CL No.        | Number of Contacts | A     | B     | C     | D     | E     | F     | G     | H   | J   | Remarks                            | RoHS |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|------------------------------------|------|
| DF15 (6.2)-20DP-0.65V(56) | 677-0162-7-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | 8.65  | 6.2 | 6.1 | With metal fitting<br>With boss    | YES  |
| DF15 (6.2)-30DP-0.65V(56) | 677-0163-0-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | 11.9  |     |     |                                    |      |
| DF15 (6.2)-40DP-0.65V(56) | 677-0164-2-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | 15.15 |     |     |                                    |      |
| DF15 (6.2)-50DP-0.65V(56) | 677-0165-5-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | 18.4  |     |     |                                    |      |
| DF15B(6.2)-20DP-0.65V(56) | 677-0182-4-56 | 20                 | 9.85  | 7.45  | 5.85  | 9.65  | 8.45  | 7.05  | -     | 6.2 | 6.1 | With metal fitting<br>Without boss | YES  |
| DF15B(6.2)-30DP-0.65V(56) | 677-0183-7-56 | 30                 | 13.1  | 10.7  | 9.1   | 12.9  | 11.7  | 10.3  | -     |     |     |                                    |      |
| DF15B(6.2)-40DP-0.65V(56) | 677-0184-0-56 | 40                 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | -     |     |     |                                    |      |
| DF15B(6.2)-50DP-0.65V(56) | 677-0185-2-56 | 50                 | 19.6  | 17.2  | 15.6  | 19.4  | 18.2  | 16.8  | -     |     |     |                                    |      |

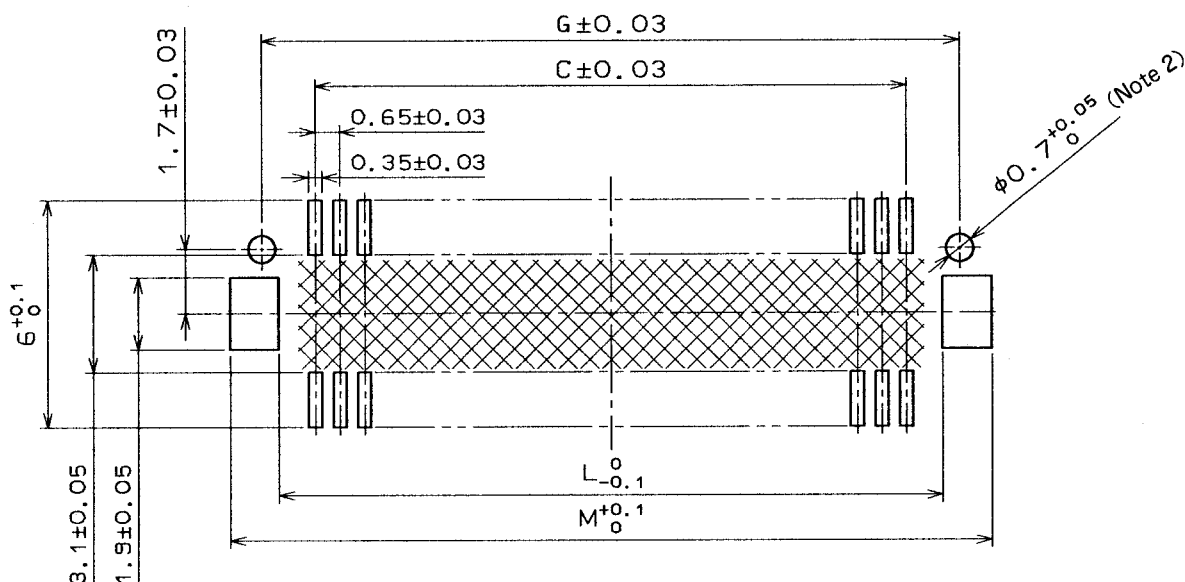
Note: Please order the embossed tape packaging product per reel. (1000 pcs./reel)




## ◆ Recommended PCB mounting pattern

(Unit: mm)

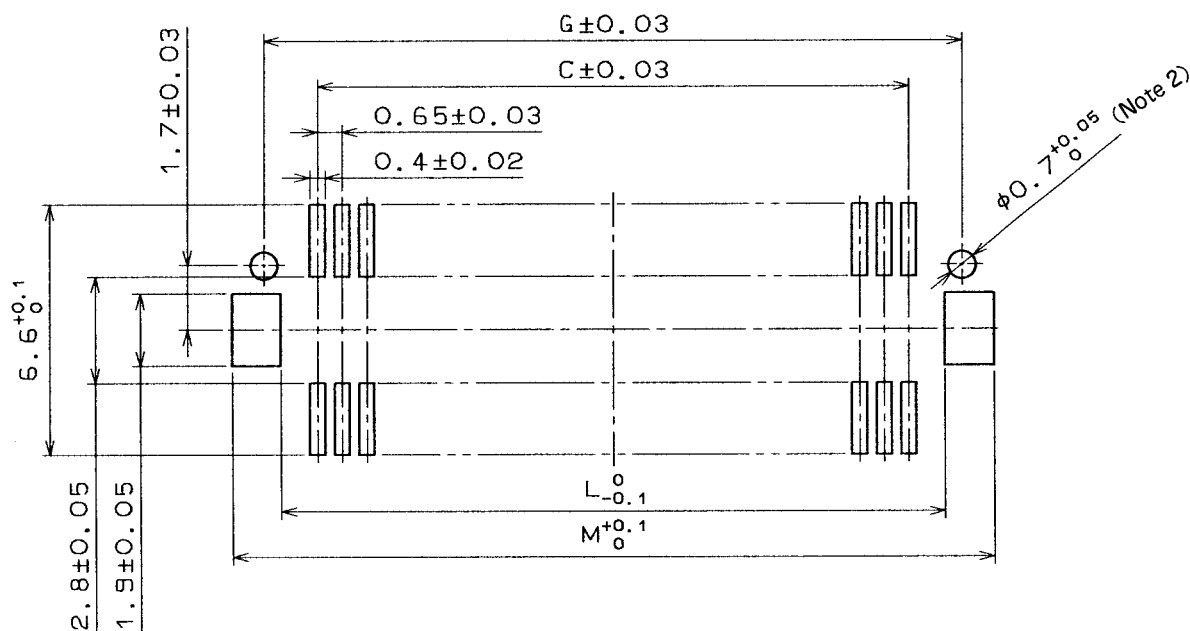
### ● Receptacle



Note1:  If the pattern is included in the shaded area, and not treated with resist, it could touch the connector contact.

### ● Header

(Unit: mm)



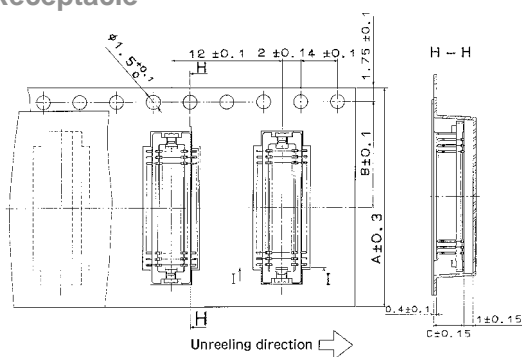
Unit: mm

| Number of Contacts | C     | G     | L     | M     |
|--------------------|-------|-------|-------|-------|
| 20                 | 5.85  | 8.65  | 7.85  | 10.25 |
| 30                 | 9.1   | 11.9  | 11.1  | 13.5  |
| 40                 | 12.35 | 15.15 | 14.35 | 16.75 |
| 50                 | 15.6  | 18.4  | 17.6  | 20    |

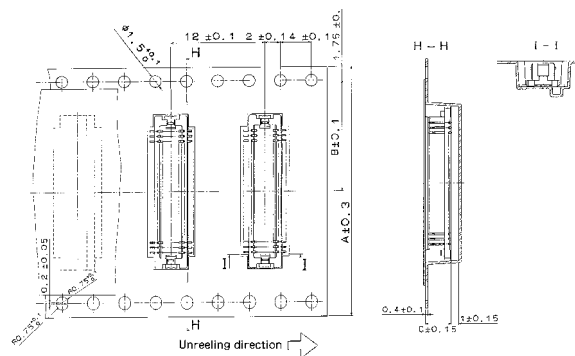


## ◆ Embossed Carrier Tape Dimensions

### ● Receptacle

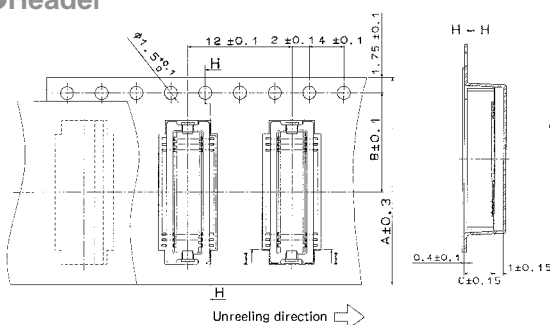


(20, 30, 40 contacts)

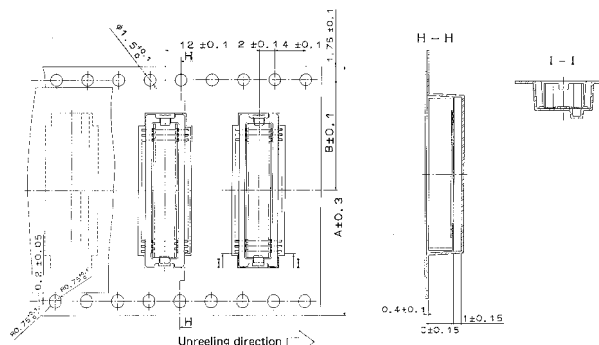


(50 contacts)

### ● Header

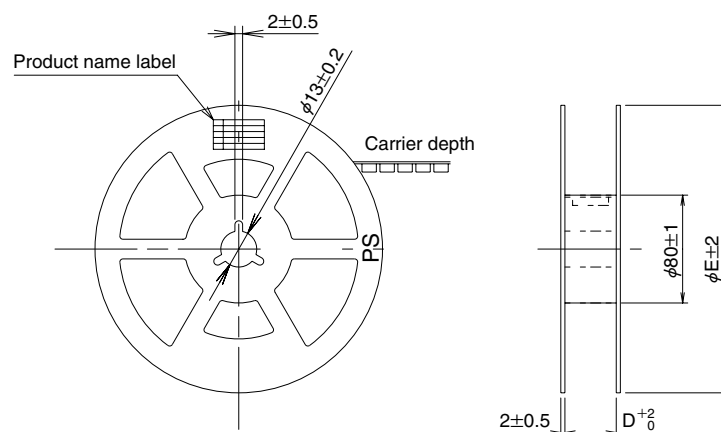


(20, 30, 40 contacts)



(50 contacts)

### ● Reel Dimensions

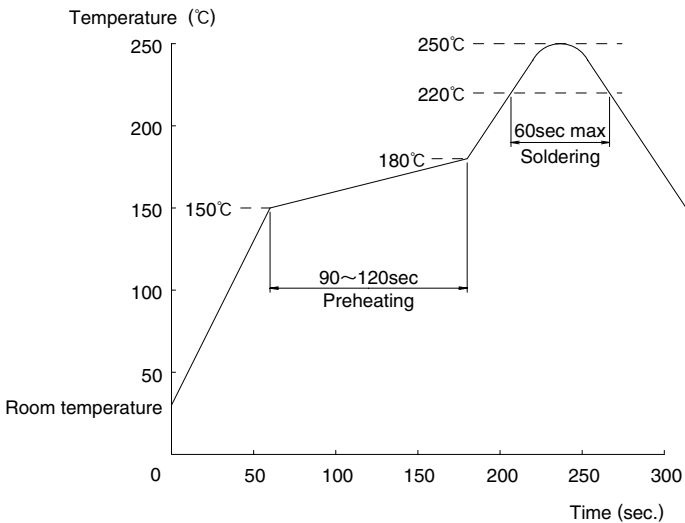


Unit:mm

| Connector             | A  | B    | C   | D    | E   | Connector             | A  | B    | C   | D    | E   |
|-----------------------|----|------|-----|------|-----|-----------------------|----|------|-----|------|-----|
| DF15#(0.8)-20DS-0.65V | 16 | 7.5  | 3.3 | 17.5 | 330 | DF15#(3.2)-20DP-0.65V | 16 | 7.5  | 3.5 | 17.5 | 330 |
| DF15#(0.8)-30DS-0.65V | 24 | 11.5 | 3.3 | 25.5 |     | DF15#(3.2)-30DP-0.65V | 24 | 11.5 | 3.5 | 25.5 |     |
| DF15#(0.8)-40DS-0.65V | 24 | 11.5 | 3.3 | 25.5 |     | DF15#(3.2)-40DP-0.65V | 24 | 11.5 | 3.5 | 25.5 |     |
| DF15#(0.8)-50DS-0.65V | 32 | 14.2 | 3.3 | 33.5 |     | DF15#(3.2)-50DP-0.65V | 32 | 14.5 | 3.5 | 33.5 |     |
| DF15#(1.8)-20DS-0.65V | 16 | 7.5  | 4.3 | 17.5 |     | DF15#(4.2)-20DP-0.65V | 16 | 7.5  | 4.5 | 17.5 |     |
| DF15#(1.8)-30DS-0.65V | 24 | 11.5 | 4.3 | 25.5 |     | DF15#(4.2)-30DP-0.65V | 24 | 11.5 | 4.5 | 25.5 |     |
| DF15#(1.8)-40DS-0.65V | 24 | 11.5 | 4.3 | 25.5 |     | DF15#(4.2)-40DP-0.65V | 24 | 11.5 | 4.5 | 25.5 |     |
| DF15#(1.8)-50DS-0.65V | 32 | 14.2 | 4.3 | 33.5 |     | DF15#(4.2)-50DP-0.65V | 32 | 14.5 | 4.5 | 33.5 |     |
|                       |    |      |     |      |     | DF15#(6.2)-20DP-0.65V | 16 | 7.5  | 6.5 | 17.5 |     |
|                       |    |      |     |      |     | DF15#(6.2)-30DP-0.65V | 24 | 11.5 | 6.5 | 25.5 |     |
|                       |    |      |     |      |     | DF15#(6.2)-40DP-0.65V | 24 | 11.5 | 6.5 | 25.5 |     |
|                       |    |      |     |      |     | DF15#(6.2)-50DP-0.65V | 32 | 14.5 | 6.5 | 33.5 |     |

◆Precautions

1. Recommended Temperature Profile (SMT)



Note1: Up to 2 cycles of Reflow soldering are possible under the same conditions, provided that there is a return to normal temperature between the first and second cycle.  
Note2: The temperature profile indicates the board surface temperature at the point of contacts with the connector terminals.

2. Recommended Manual Soldering Condition (SMT)

Soldering iron temperature: 350±10°C, Soldering time: Within 3 seconds

3. Recommended Screen Thickness (SMT)

0.15mm

4. Board Warp (SMT)

Max 0.02mm in the connector center area, based on the both connector edges

5. Cleaning Condition

Refer to the "Nylon Connector Use Hand book".

6. Cautions

- The receptacle is designed in a structure where contacts are exposed. Touching it with bare hands would cause contact failure or electrostatic element damage.
- Where no board is mounted, the insertion or extraction will cause damage or deformation in the contacts.
- Avoid retaining the board with the connector only, and fix the board by any other means than the connector.
- Excessive scoop insertion or extraction may result in damage.
- In the manual soldering process, don't carry out the flux coating which will cause a flux blister on the connector.
- The color phase of this product may be slightly different from that of the formed product according to the manufacturing lot. However, the difference doesn't affect the performance.