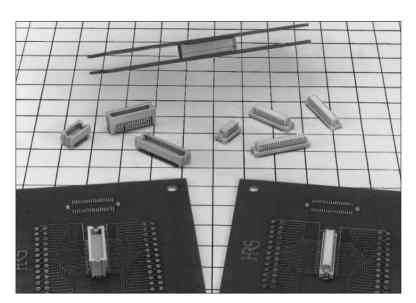
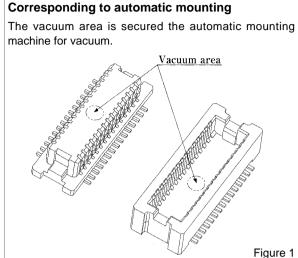
0.65mm Pitch SMT Board to Board Connector

DF15 Series





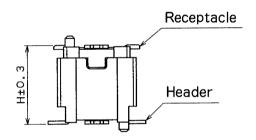
■Features

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 | DF15#(1.8)-*DS-0.65V |
|----------------------|--------------------------|--------------------------|
| | Combinnation with H size | 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

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

■Product Specifications

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

| Item | Specification | Condition | | | | |
|----------------------------------|--|---|--|--|--|--|
| 1. Insulation Resistance | 500M ohms min. | 100V DC | | | | |
| 2. Withstanding Voltage | No flashover or insulation breakdown. | 150V AC/1 minute | | | | |
| 3. Contact Resistance | 50m ohms max | 100mA | | | | |
| 4. Vibration | No electrical discontinuity of 1 μ s or more | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions. | | | | |
| 5. Humidity (Steady state) | Contact resistance: 50m ohms max. Insulation resistance:250M ohms min. | 96 hours at temperature of 40°C and humidity of 90% to 95% | | | | |
| C. Tamanaratura Cuala | Contact resistance : 50m ohms max. | (-55°C: 30 minutes 5 to 35°C: 10 minutes | | | | |
| 6. Temperature Cycle | Insulation resistance: 500M ohms min. | 85℃: 30 minutes 5 to 35℃: 10 minutes) 5 cycles | | | | |
| 7. Durability (Mating/un-mating) | Contact resistance: 50m ohms max. | 50 cycles | | | | |
| 9. Designation to Coldering heat | No deformation of components affecting performance | Reflow: At the recommended temperature profile | | | | |
| 8. Resistance to Soldering heat | No deformation of components affecting performance. | Manual soldering: 350°C for 3 seconds | | | | |

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.

■Material

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

Note: The gold plated product of pin herder consists of a contact area of gold plated and lead of tin plated

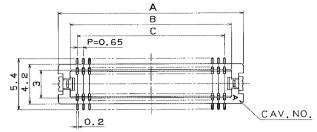
■Ordering Information

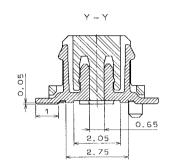
● Receptacle/Header

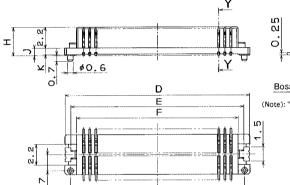
| 1 Se | eries Name | : DF1 | 5 | | Number of Contacts |
|-------------|------------------------|---------|------|---|--------------------------------|
| 2 Ty | /pe | | | | 20, 30, 40, 50 |
| | | Fitting | Boss |] | Connector Type |
| | Blank | 0 | 0 | | DS : Double-row receptacle |
| | Α | X | 0 | | DP: Double-row header |
| | В О Х | | | | G Contact Pitch : 0.65mm |
| | С | × | × | | Contact type |
| 8 Pr | oduct heigh | nt | | | V : Straight SMT type |
| Re | Receptacle : 0.8, 1.8 | | | | (56) : Embossed tape packaging |
| He | Header : 3.2, 4.2, 6.2 | | | | |

■Receptacle With metal fitting









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

●Product Height: 0.8mm Product

Unit: mm

| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G | Н | 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 | | | | | |
| 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 | 2 | 0.8 | 0.7 | With metal fitting | YES |
| 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 | 3 | 0.6 | 0.7 | With boss | IES |
| 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 | _ | | | | | |
| DF15B(0.8)-30DS-0.65V(56) | 677-0023-0-56 | 30 | 13.10 | 10.6 | 9.1 | 12.9 | 11.7 | 10.6 | - | 0 | 0.0 | 0.7 | With metal fitting | YES |
| DF15B(0.8)-40DS-0.65V(56) | 677-0024-3-56 | 40 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | _ | 3 | 3 0.8 | 0.7 | Without boss | 150 |
| DF15B(0.8)-50DS-0.65V(56) | 677-0025-6-56 | 50 | 19.60 | 17.1 | 15.6 | 19.4 | 18.2 | 17.1 | _ | | | | | |

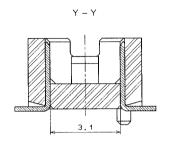
●Product Height: 1.8mm Product

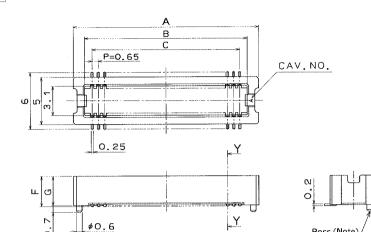
Unit: mm

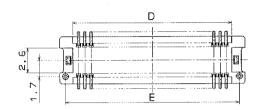
| or rounds riviging | | | | | | | | | | | | _ | | |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|---|---------|-----|--------------------|------|
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G | Н | 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 | | | | | |
| 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 | 4 | 1.0 | 17 | With metal fitting | YES |
| 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 | 4 | 1.8 | 1.7 | With boss | IES |
| 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 | _ | | | | | |
| DF15B(1.8)-30DS-0.65V(56) | 677-0063-5-56 | 30 | 13.1 | 10.6 | 9.1 | 12.9 | 11.7 | 10.6 | _ | 4 | 4.0 | 4.7 | With metal fitting | YES |
| DF15B(1.8)-40DS-0.65V(56) | 677-0064-8-56 | 40 | 16.35 | 13.85 | 12.35 | 16.15 | 14.95 | 13.85 | _ | 4 | 4 1.8 | 1.7 | Without boss | IES |
| DF15B(1.8)-50DS-0.65V(56) | 677-0065-0-56 | 50 | 19.6 | 17.1 | 15.6 | 19.4 | 18.2 | 17.1 | - | | | | | |

■Header Without metal fitting









[Specific No.] -* *, (* *)

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

(56) :Gold plated embossed tape packaging

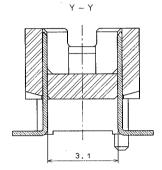
● Product Height: 3.2mm Product

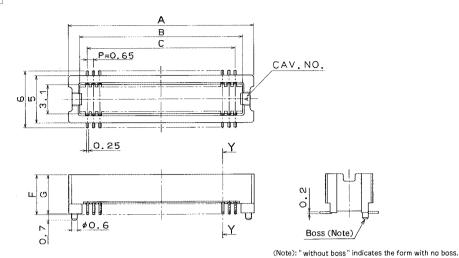
Unit: mm

| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | 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 | | | | |
| DF15A(3.2)-30DP-0.65V(56) | 677-0093-6-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | 11.9 | 3.2 | 3.1 | Without metal fitting | YES |
| DF15A(3.2)-40DP-0.65V(56) | 677-0094-9-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 | 3.2 | _ | With boss | 163 |
| 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 | _ | | | | |
| DF15C(3.2)-30DP-0.65V(56) | 677-0113-1-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | _ | 2.0 | | Without metal | YES |
| DF15C(3.2)-40DP-0.65V(56) | 677-0114-4-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | _ | 3.2 3. | 3.1 fittin | Without boss | 163 |
| DF15C(3.2)-50DP-0.65V(56) | 677-0115-7-56 | 50 | 19.6 | 17.2 | 15.6 | 16.8 | _ | | | | |

■Header Without metal fitting







D

[Specific No.] -* *, (* *)

(56) :Gold plated embossed tape packaging

●Product Height: 4.2mm Product

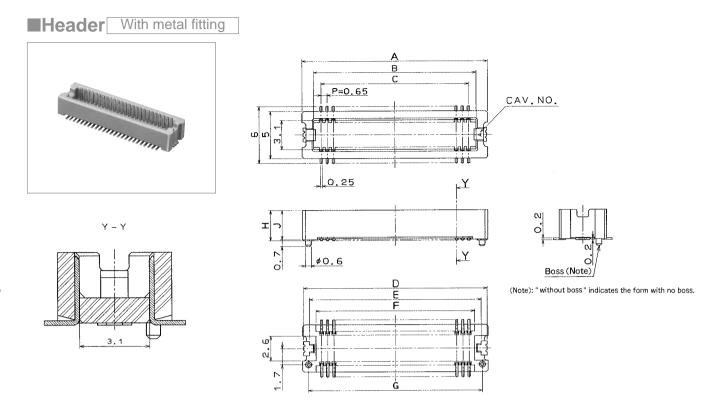
Unit: mm

| • | | | | | | | | | | | |
|---------------------------|---|--|--|---|--|---|--|---|---|--|---|
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | 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 | | | | |
| DF15A(4.2)-30DP-0.65V(56) | 677-0133-9-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | 11.9 | 4.0 | 44 | | YES |
| DF15A(4.2)-40DP-0.65V(56) | 677-0134-1-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 | 4.2 | 4.1 | | 163 |
| 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 | _ | | | | |
| DF15C(4.2)-30DP-0.65V(56) | 677-0153-6-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | _ | 4.0 | | | YES |
| DF15C(4.2)-40DP-0.65V(56) | 677-0154-9-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | 55 – | 4.2 | 4.1 | Without boss | 163 |
| DF15C(4.2)-50DP-0.65V(56) | 677-0155-1-56 | 50 | 19.6 | 17.2 | 15.6 | 16.8 | - | | | | |
| | Part Number DF15A(4.2)-20DP-0.65V(56) DF15A(4.2)-30DP-0.65V(56) DF15A(4.2)-40DP-0.65V(56) DF15A(4.2)-50DP-0.65V(56) DF15C(4.2)-20DP-0.65V(56) DF15C(4.2)-30DP-0.65V(56) DF15C(4.2)-40DP-0.65V(56) | Part Number CL No. DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 DF15C(4.2)-30DP-0.65V(56) 677-0153-6-56 DF15C(4.2)-40DP-0.65V(56) 677-0154-9-56 | Part Number CL No. Number of Contacts DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 30 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 40 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 50 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 20 DF15C(4.2)-30DP-0.65V(56) 677-0153-6-56 30 DF15C(4.2)-40DP-0.65V(56) 677-0154-9-56 40 | Part Number CL No. Number of Contacts A DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 30 13.1 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 40 16.35 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 50 19.6 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 20 9.85 DF15C(4.2)-30DP-0.65V(56) 677-0153-6-56 30 13.1 DF15C(4.2)-40DP-0.65V(56) 677-0154-9-56 40 16.35 | Part Number CL No. Number of Contacts A B DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 30 13.1 10.7 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 40 16.35 13.95 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 50 19.6 17.2 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 20 9.85 7.45 DF15C(4.2)-30DP-0.65V(56) 677-0153-6-56 30 13.1 10.7 DF15C(4.2)-40DP-0.65V(56) 677-0154-9-56 40 16.35 13.95 | Part Number CL No. Number of Contacts A B C DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 30 13.1 10.7 9.1 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 40 16.35 13.95 12.35 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 50 19.6 17.2 15.6 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 20 9.85 7.45 5.85 DF15C(4.2)-30DP-0.65V(56) 677-0153-6-56 30 13.1 10.7 9.1 DF15C(4.2)-40DP-0.65V(56) 677-0154-9-56 40 16.35 13.95 12.35 | Part Number CL No. Number of Contacts A B C D DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 7.05 DF15A(4.2)-30DP-0.65V(56) 677-0133-9-56 30 13.1 10.7 9.1 10.3 DF15A(4.2)-40DP-0.65V(56) 677-0134-1-56 40 16.35 13.95 12.35 13.55 DF15A(4.2)-50DP-0.65V(56) 677-0135-4-56 50 19.6 17.2 15.6 16.8 DF15C(4.2)-20DP-0.65V(56) 677-0152-3-56 20 9.85 7.45 5.85 7.05 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 | Part Number CL No. Number of Contacts A B C D E DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 7.05 8.65 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 — 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 — | Part Number CL No. Number of Contacts A B C D E F DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 7.05 8.65 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 — 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 — | Part Number CL No. Number of Contacts A B C D E F G DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 7.05 8.65 7.05 9.1 10.3 | Part Number CL No. Number of Contacts A B C D E F G Remarks DF15A(4.2)-20DP-0.65V(56) 677-0132-6-56 20 9.85 7.45 5.85 7.05 8.65 7.05 9.1 10.3 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 15.15 <td< td=""></td<> |

●Product Height: 6.2mm Product

Unit: mm

| | Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | 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 | | | | | |
| | DF15A(6.2)-30DP-0.65V(56) | 677-0173-3-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | 11.9 | 6.0 | C 4 | Without metal fitting | YES | |
| | DF15A(6.2)-40DP-0.65V(56) | 677-0174-6-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | 15.15 | 6.2 | 6.1 | With boss | 153 | |
| | 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 | - | | | | | |
| | DF15C(6.2)-30DP-0.65V(56) | 677-0193-0-56 | 30 | 13.1 | 10.7 | 9.1 | 10.3 | _ | 6.0 | C 4 | Without metal fitting | YES | |
| | DF15C(6.2)-40DP-0.65V(56) | 677-0194-3-56 | 40 | 16.35 | 13.95 | 12.35 | 13.55 | - 6 | 5 – | 6.2 | 6.1 | Without boss | 153 |
| Ī | DF15C(6.2)-50DP-0.65V(56) | 677-0195-6-56 | 50 | 19.6 | 17.2 | 15.6 | 16.8 | _ | | | | | |



●Product Height: 3.2mm Product

Unit: mm

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

| | | | | | | | | | | | | • | |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|------|-----|--------------------|------|
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G | Н | 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 | | | | |
| 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 | 3.2 | 3.1 | With metal fitting | YES |
| 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 | 5.15 | 3.1 | With boss | IES |
| 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 | _ | | | | |
| DF15B(3.2)-30DP-0.65V(56) | 677-0103-8-56 | 30 | 13.1 | 10.7 | 9.1 | 12.9 | 11.7 | 10.3 | _ | | 24 | With metal fitting | YES |
| DF15B(3.2)-40DP-0.65V(56) | 677-0104-0-56 | 40 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | _ | | 3.1 | Without boss | 150 |
| DF15B(3.2)-50DP-0.65V(56) | 677-0105-3-56 | 50 | 19.6 | 17.2 | 15.6 | 19.4 | 18.2 | 16.8 | _ | | | | |

■Header With metal fitting P=0.65 CAV. NO. 0.25 ŀΥ ø0.6 Y Boss (Note) (Note): " without boss " indicates the form with no boss.

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

●Product Height: 4.2mm Product

Unit: mm

| 0 | | | | | | | | | | | | | |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------------|-----|--------------------|------|
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G | Н | 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 | | | | |
| 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 | 4.0 | 4.1 | With metal fitting | YES |
| 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 | 4.2 | 4.1 | With boss | TES |
| 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 | _ | | | | |
| DF15B(4.2)-30DP-0.65V(56) | 677-0143-2-56 | 30 | 13.1 | 10.7 | 9.1 | 12.9 | 11.7 | 10.3 | - | 4.0 | 4.4 | With metal fitting | YES |
| DF15B(4.2)-40DP-0.65V(56) | 677-0144-5-56 | 40 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | - | - - - | 4.1 | Without boss | TES |
| DF15B(4.2)-50DP-0.65V(56) | 677-0145-8-56 | 50 | 19.6 | 17.2 | 15.6 | 19.4 | 18.2 | 16.8 | _ | | | | |

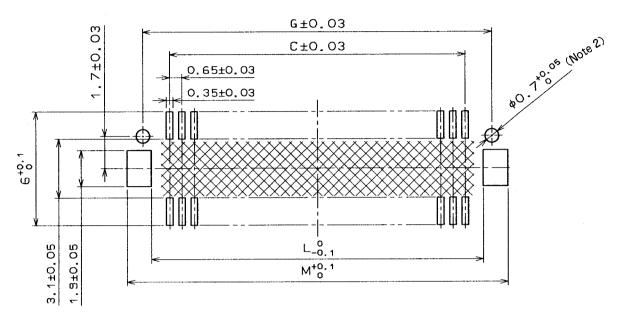
●Product Height: 6.2mm Product

Unit: mm

| | - | | | | | | | | | | | _ | |
|---------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|--------------------|------|
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G | Н | 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 | | | | |
| 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 | | C 4 | With metal fitting | YES |
| 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 | 6.2 | 6.1 | With boss | TES |
| 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 | _ | | | | |
| DF15B(6.2)-30DP-0.65V(56) | 677-0183-7-56 | 30 | 13.1 | 10.7 | 9.1 | 12.9 | 11.7 | 10.3 | _ | | C 4 | With metal fitting | YES |
| DF15B(6.2)-40DP-0.65V(56) | 677-0184-0-56 | 40 | 16.35 | 13.95 | 12.35 | 16.15 | 14.95 | 13.55 | _ | 6.2 | 6.1 | Without boss | TES |
| DF15B(6.2)-50DP-0.65V(56) | 677-0185-2-56 | 50 | 19.6 | 17.2 | 15.6 | 19.4 | 18.2 | 16.8 | _ | | | | |

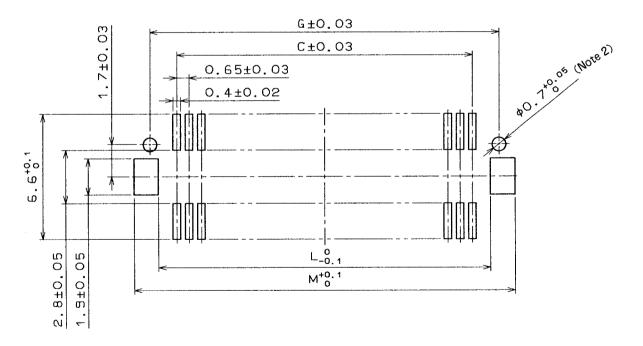
Receptacle

(Unit: mm)



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

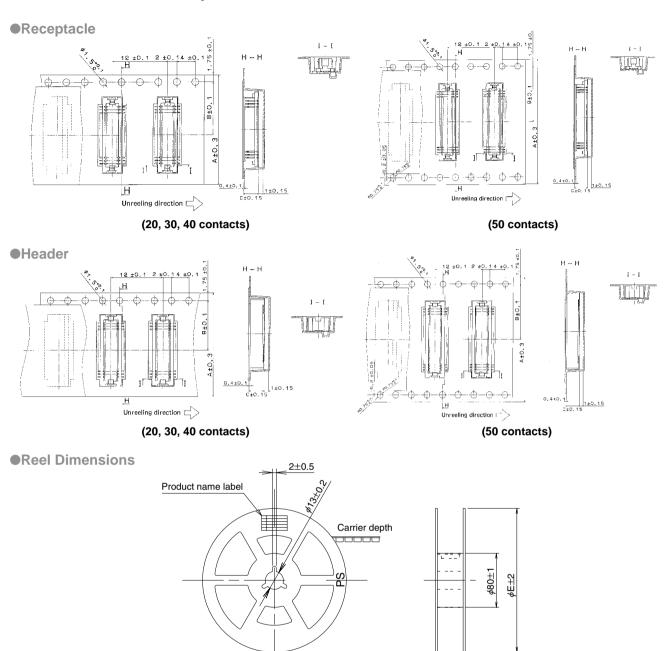
●Header (Unit: mm)



Unit: mm

| Number of Contacts | С | G | L | М |
|--------------------|-------|-------|-------|-------|
| 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



| nit:mm | ι | | | | | | | | | | |
|--------|------|-----|------|----|-----------------------|-----|------|-----|------|----|-----------------------|
| Е | D | С | В | Α | Connector | Е | D | С | В | Α | Connector |
| | 17.5 | 3.5 | 7.5 | 16 | DF15#(3.2)-20DP-0.65V | | 17.5 | 3.3 | 7.5 | 16 | DF15#(0.8)-20DS-0.65V |
| | 25.5 | 3.5 | 11.5 | 24 | DF15#(3.2)-30DP-0.65V | | 25.5 | 3.3 | 11.5 | 24 | DF15#(0.8)-30DS-0.65V |
| | 25.5 | 3.5 | 11.5 | 24 | DF15#(3.2)-40DP-0.65V | | 25.5 | 3.3 | 11.5 | 24 | DF15#(0.8)-40DS-0.65V |
| 220 | 33.5 | 3.5 | 14.5 | 32 | DF15#(3.2)-50DP-0.65V | 220 | 33.5 | 3.3 | 14.2 | 32 | DF15#(0.8)-50DS-0.65V |
| 330 | 17.5 | 4.5 | 7.5 | 16 | DF15#(4.2)-20DP-0.65V | 330 | 17.5 | 4.3 | 7.5 | 16 | DF15#(1.8)-20DS-0.65V |
| | 25.5 | 4.5 | 11.5 | 24 | DF15#(4.2)-30DP-0.65V | | 25.5 | 4.3 | 11.5 | 24 | DF15#(1.8)-30DS-0.65V |
| | 25.5 | 4.5 | 11.5 | 24 | DF15#(4.2)-40DP-0.65V | | 25.5 | 4.3 | 11.5 | 24 | DF15#(1.8)-40DS-0.65V |
| | 33.5 | 4.5 | 14.5 | 32 | DF15#(4.2)-50DP-0.65V | | 33.5 | 4.3 | 14.2 | 32 | DF15#(1.8)-50DS-0.65V |
| | 17.5 | 6.5 | 7.5 | 16 | DF15#(6.2)-20DP-0.65V | | | | | | |
| 380 | 25.5 | 6.5 | 11.5 | 24 | DF15#(6.2)-30DP-0.65V | | | | | | |
| 300 | 25.5 | 6.5 | 11.5 | 24 | DF15#(6.2)-40DP-0.65V | | | | | | |

<u>2±</u>0.5

DF15#(6.2)-50DP-0.65V

 $D^{+2}_{\ \ 0}$

32

14.5

6.5

33.5

◆ Precautions

