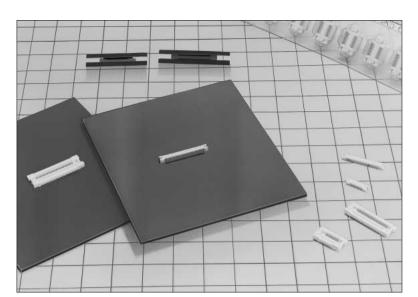
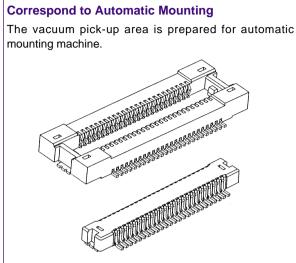


0.5mm Pitch SMT Board to Board Connector

DF16 Series

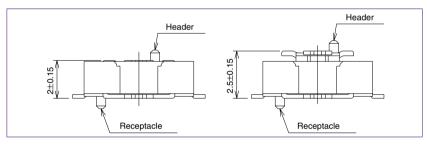




■Features

1. Miniaturizing and Slimming

In addition to 0.5mm pitch miniaturization, board to stacking height of 2mm and 2.5mm are prrovided.



Receptacle commonly uses DF16#-*DS-0.5V.

| Header Product Name | Stacking Height |
|---------------------|-----------------|
| DF16#(2.0)-*DP-0.5V | 2.0mm |
| DF16#(2.5)-*DP-0.5V | 2.5mm |

Note1: The stacking height doesn't include the solder paste thickness.

2. High Contact Reliability

The bellows female contact has a sufficient spring characteristic despite the low profile, and achieves high contact reliability.

3. Click Sensitivity in Mating

The click feeling is considered to facilitate insertion check when the connector is mated.

4. Metal Fitting Available

The metal fitting to prevent the solder peel is provided, considering the mounting on FPC.

5. Corresponding to Automatic Mounting

The connector has the vacuum pick-up area, and enables the automatic mounting with the embossed tape packaging. Connector specification with no boss and no fitting is also.

Applications

Mobile phone, LCD(Liquid Crystal Display), and so on

■Product Specifications

| Rating | Current rating: 0.3A | Operating Temperature Range : –35 to +85℃ (Note 1) | Storage Temperature Range : -10 to +60°C (Note 2) |
|--------|------------------------|--|---|
| Rating | 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% | | |
| 6. Temperature Cycle | Contact resistance: 50m ohms max.:Insulation resistance: 500M ohms min. | (-55°C: 30 minutes 5 to 35°C: 10 minutes | | |
| | | 85℃: 30 minutes 5 to 35℃: 10 minutes) 5 cycles | | |
| 7. Durability (Mating/un-mating) | Contact resistance: 50m ohms | 50cycle | | |
| O. Desistance to Coldering heat | No defermation of components offecting performance | Reflow: At the recommended temperature profile | | |
| 8. Resistance to Soldering heat | No deformation of components affecting performance. | Manual soldering: 300℃ for 3 seconds | | |

Note 1: Includes temperature rise caused by current flow.

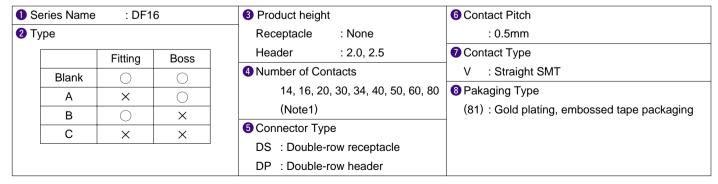
■Material

| Product | Part | Material | Treatment | UL Standard |
|------------------------|---------------|-----------------|-----------------------|-------------|
| | Insulator | Polyamide resin | White Beige (Natural) | UL94V-0 |
| Receptacle Contact Pho | | Phosphor copper | Gold plated | |
| | Metal fitting | Brass | Tin-lead plated | |
| | Insulator | Polyamide resin | White Beige (Natural) | UL94V-0 |
| Header | Contact | Phosphor copper | Gold plated | |
| | Metal fitting | Brass | Tin-lead plated | |

■Ordering Information

Receptacle/Header

$$\frac{\mathsf{DF16}}{\bullet} \quad \# \quad \frac{(**)}{\bullet} - \frac{*}{\bullet} \quad \frac{\mathsf{DS}}{\bullet} - \frac{0.5}{\bullet} \quad \frac{\mathsf{V}}{\bullet} \quad \frac{(**)}{\bullet}$$



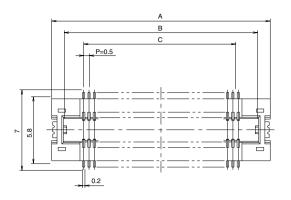
Note1: For the 14, 16 and 80 contacts connector, the stacking height 2.0mm product only is available.

For the 34 contacts connectors, the stacking height of 2.5mm product only is available.

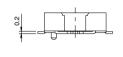
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

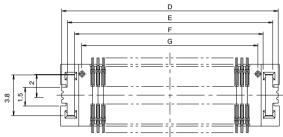
■ Receptacle With metal fitting











[Specific No.] -* *, (* *) (81) :Gold plated, embossed tape packaging

Receptacle with metal fitting, with boss

Unit: mm

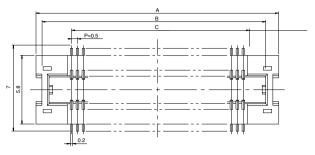
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G |
|--------------------|---------------|--------------------|------|------|------|------|------|------|------|
| DF16-14DS-0.5V(**) | 679-0010-1-** | 14 | 9.0 | 6.8 | 3.0 | 8.8 | 7.8 | 6.4 | 5.6 |
| DF16-16DS-0.5V(**) | 679-0001-0-** | 16 | 9.5 | 7.3 | 3.5 | 9.3 | 8.3 | 6.9 | 6.1 |
| DF16-20DS-0.5V(**) | 679-0002-3-** | 20 | 10.5 | 8.3 | 4.5 | 10.3 | 9.3 | 7.9 | 6.5 |
| DF16-30DS-0.5V(**) | 679-0003-6-** | 30 | 13.0 | 10.8 | 7.0 | 12.8 | 11.8 | 10.4 | 9.0 |
| DF16-34DS-0.5V(**) | 679-0009-2-** | 34 | 14.0 | 11.8 | 8.0 | 13.8 | 12.8 | 11.4 | 10.0 |
| DF16-40DS-0.5V(**) | 679-0004-9-** | 40 | 15.5 | 13.3 | 9.5 | 15.3 | 14.3 | 12.9 | 11.5 |
| DF16-50DS-0.5V(**) | 679-0005-1-** | 50 | 18.0 | 15.8 | 12.0 | 17.8 | 16.8 | 15.4 | 14.0 |
| DF16-60DS-0.5V(**) | 679-0006-4-** | 60 | 20.5 | 18.3 | 14.5 | 20.3 | 19.3 | 17.9 | 16.5 |
| DF16-80DS-0.5V(**) | 679-0008-0-** | 80 | 25.5 | 23.3 | 19.5 | 25.3 | 24.3 | 22.9 | 21.5 |

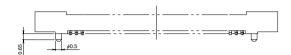
Receptacle with metal fitting, without boss

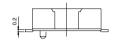
| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е | F | G |
|---------------------|---------------|--------------------|------|------|------|------|------|------|---|
| DF16B-14DS-0.5V(**) | 679-0030-9-** | 14 | 9.0 | 6.8 | 3.0 | 8.8 | 7.8 | 6.4 | |
| DF16B-16DS-0.5V(**) | 679-0021-8-** | 16 | 9.5 | 7.3 | 3.5 | 9.3 | 8.3 | 6.9 | |
| DF16B-20DS-0.5V(**) | 679-0022-0-** | 20 | 10.5 | 8.3 | 4.5 | 10.3 | 9.3 | 7.9 | |
| DF16B-30DS-0.5V(**) | 679-0023-3-** | 30 | 13.0 | 10.8 | 7.0 | 12.8 | 11.8 | 10.4 | |
| DF16B-34DS-0.5V(**) | 679-0029-0-** | 34 | 14.0 | 11.8 | 8.0 | 13.8 | 12.8 | 11.4 | |
| DF16B-40DS-0.5V(**) | 679-0024-6-** | 40 | 15.5 | 13.3 | 9.5 | 15.3 | 14.3 | 12.9 | |
| DF16B-50DS-0.5V(**) | 679-0025-9-** | 50 | 18.0 | 15.8 | 12.0 | 17.8 | 16.8 | 15.4 | |
| DF16B-60DS-0.5V(**) | 679-0026-1-** | 60 | 20.5 | 18.3 | 14.5 | 20.3 | 19.3 | 17.9 | |
| DF16B-80DS-0.5V(**) | 679-0028-7-** | 80 | 25.5 | 23.3 | 19.5 | 25.3 | 24.3 | 22.9 | |

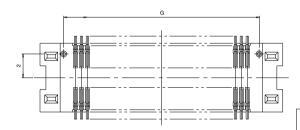
■ Receptacle Without metal fitting











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

Receptacle without metal fitting, with boss

Unit: mm

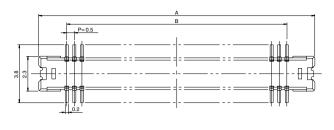
| Part Number | CL No. | Number of Contacts | А | В | С | G |
|---------------------|---------------|--------------------|------|------|------|------|
| DF16A-14DS-0.5V(**) | 679-0020-5-** | 14 | 9.0 | 6.8 | 3.0 | 5.6 |
| DF16A-16DS-0.5V(**) | 679-0011-4-** | 16 | 9.5 | 7.3 | 3.5 | 6.1 |
| DF16A-20DS-0.5V(**) | 679-0012-7-** | 20 | 10.5 | 8.3 | 4.5 | 6.5 |
| DF16A-30DS-0.5V(**) | 679-0013-0-** | 30 | 13.0 | 10.8 | 7.0 | 9.0 |
| DF16A-34DS-0.5V(**) | 679-0019-6-** | 34 | 14.0 | 11.8 | 8.0 | 10.0 |
| DF16A-40DS-0.5V(**) | 679-0014-2-** | 40 | 15.5 | 13.3 | 9.5 | 11.5 |
| DF16A-50DS-0.5V(**) | 679-0015-5-** | 50 | 18.0 | 15.8 | 12.0 | 14.0 |
| DF16A-60DS-0.5V(**) | 679-0016-8-** | 60 | 20.5 | 18.3 | 14.5 | 16.5 |
| DF16A-80DS-0.5V(**) | 679-0018-3-** | 80 | 25.5 | 23.3 | 19.5 | 21.5 |

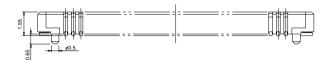
Receptacle without metal fitting, without boss

| | , | | | | | • · · · · · · · · · · · · · · · · · · · |
|---------------------|---------------|--------------------|------|------|------|---|
| Part Number | CL No. | Number of Contacts | А | В | С | G |
| DF16C-14DS-0.5V(**) | 679-0040-2-** | 14 | 9.0 | 6.8 | 3.0 | |
| DF16C-16DS-0.5V(**) | 679-0031-1-** | 16 | 9.5 | 7.3 | 3.5 | |
| DF16C-20DS-0.5V(**) | 679-0032-4-** | 20 | 10.5 | 8.3 | 4.5 | |
| DF16C-30DS-0.5V(**) | 679-0033-7-** | 30 | 13.0 | 10.8 | 7.0 | |
| DF16C-34DS-0.5V(**) | 679-0039-3-** | 34 | 14.0 | 11.8 | 8.0 | |
| DF16C-40DS-0.5V(**) | 679-0034-0-** | 40 | 15.5 | 13.3 | 9.5 | |
| DF16C-50DS-0.5V(**) | 679-0035-2-** | 50 | 18.0 | 15.8 | 12.0 | |
| DF16C-60DS-0.5V(**) | 679-0036-5-** | 60 | 20.5 | 18.3 | 14.5 | |
| DF16C-80DS-0.5V(**) | 679-0038-0-** | 80 | 25.5 | 23.3 | 19.5 | |

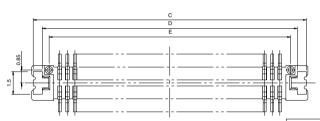
■Board to Board 2mm Header With metal fitting











[Specific No.] -* *, (* *) (81) :Gold plated, embossed tape packaging

●Board to Board 2mm Header with metal fitting, with boss

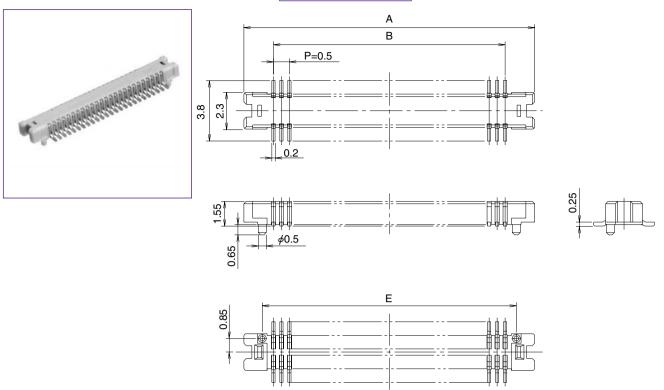
Unit: mm

| | | • · · · · · · · · · · · · · · · · · · · | | | | | |
|-------------------------|---------------|---|------|------|------|------|------|
| Part Number | CL No. | Number of Contacts | А | В | С | D | Е |
| DF16(2.0)-14DP-0.5V(**) | 679-0049-7-** | 14 | 6.7 | 3.0 | 6.5 | 5.3 | 4.4 |
| DF16(2.0)-16DP-0.5V(**) | 679-0041-5-** | 16 | 7.2 | 3.5 | 7.0 | 5.8 | 4.9 |
| DF16(2.0)-20DP-0.5V(**) | 679-0042-8-** | 20 | 8.2 | 4.5 | 8.0 | 6.8 | 5.9 |
| DF16(2.0)-30DP-0.5V(**) | 679-0043-0-** | 30 | 10.7 | 7.0 | 10.5 | 9.3 | 8.4 |
| DF16(2.0)-40DP-0.5V(**) | 679-0044-3-** | 40 | 13.2 | 9.5 | 13.0 | 11.8 | 10.9 |
| DF16(2.0)-50DP-0.5V(**) | 679-0045-6-** | 50 | 15.7 | 12.0 | 15.5 | 14.3 | 13.4 |
| DF16(2.0)-60DP-0.5V(**) | 679-0046-9-** | 60 | 18.2 | 14.5 | 18.0 | 16.8 | 15.9 |
| DF16(2.0)-80DP-0.5V(**) | 679-0048-4-** | 80 | 23.2 | 19.5 | 23.0 | 21.8 | 20.9 |

●Board to Board 2mm Header with metal fitting, without boss

| Part Number | CL No. | Number of Contacts | Α | В | С | D | Е |
|--------------------------|---------------|--------------------|------|------|------|------|---|
| DF16B(2.0)-14DP-0.5V(**) | 679-0069-4-** | 14 | 6.7 | 3.0 | 6.5 | 5.3 | |
| DF16B(2.0)-16DP-0.5V(**) | 679-0061-2-** | 16 | 7.2 | 3.5 | 7.0 | 5.8 | |
| DF16B(2.0)-20DP-0.5V(**) | 679-0062-5-** | 20 | 8.2 | 4.5 | 8.0 | 6.8 | |
| DF16B(2.0)-30DP-0.5V(**) | 679-0063-8-** | 30 | 10.7 | 7.0 | 10.5 | 9.3 | |
| DF16B(2.0)-40DP-0.5V(**) | 679-0064-0-** | 40 | 13.2 | 9.5 | 13.0 | 11.8 | |
| DF16B(2.0)-50DP-0.5V(**) | 679-0065-3-** | 50 | 15.7 | 12.0 | 15.5 | 14.3 | |
| DF16B(2.0)-60DP-0.5V(**) | 679-0066-6-** | 60 | 18.2 | 14.5 | 18.0 | 16.8 | |
| DF16B(2.0)-80DP-0.5V(**) | 679-0068-1-** | 80 | 23.2 | 19.5 | 23.0 | 21.8 | |

■Board to Board 2mm Header Without metal fitting



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

●Board to Board 2mm Header without metal fitting, with boss

Unit: mm

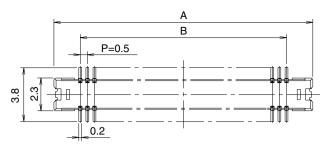
| | • | | | | |
|--------------------------|---|--------------------|------|------|------|
| Part Number | CL No. | Number of Contacts | Α | В | E |
| DF16A(2.0)-14DP-0.5V(**) | 679-0059-0-** | 14 | 6.7 | 3.0 | 4.4 |
| DF16A(2.0)-16DP-0.5V(**) | 679-0051-9-** | 16 | 7.2 | 3.5 | 4.9 |
| DF16A(2.0)-20DP-0.5V(**) | 679-0052-1-** | 20 | 8.2 | 4.5 | 5.9 |
| DF16A(2.0)-30DP-0.5V(**) | 679-0053-4-** | 30 | 10.7 | 7.0 | 8.4 |
| DF16A(2.0)-40DP-0.5V(**) | 679-0054-7-** | 40 | 13.2 | 9.5 | 10.9 |
| DF16A(2.0)-50DP-0.5V(**) | 679-0055-0-** | 50 | 15.7 | 12.0 | 13.4 |
| DF16A(2.0)-60DP-0.5V(**) | 679-0056-2-** | 60 | 18.2 | 14.5 | 15.9 |
| DF16A(2.0)-80DP-0.5V(**) | 679-0058-8-** | 80 | 23.2 | 19.5 | 20.9 |

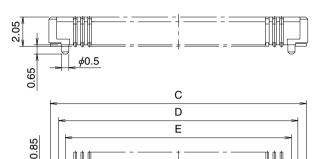
•Board to Board 2mm Header without metal fitting, without boss

| | • | | | | |
|--------------------------|---------------|--------------------|------|------|---|
| Part Number | CL No. | Number of Contacts | Α | В | E |
| DF16C(2.0)-14DP-0.5V(**) | 679-0079-8-** | 14 | 6.7 | 3.0 | _ |
| DF16C(2.0)-16DP-0.5V(**) | 679-0071-6-** | 16 | 7.2 | 3.5 | _ |
| DF16C(2.0)-20DP-0.5V(**) | 679-0072-9-** | 20 | 8.2 | 4.5 | _ |
| DF16C(2.0)-30DP-0.5V(**) | 679-0073-1-** | 30 | 10.7 | 7.0 | |
| DF16C(2.0)-40DP-0.5V(**) | 679-0074-4-** | 40 | 13.2 | 9.5 | _ |
| DF16C(2.0)-50DP-0.5V(**) | 679-0075-7-** | 50 | 15.7 | 12.0 | _ |
| DF16C(2.0)-60DP-0.5V(**) | 679-0076-0-** | 60 | 18.2 | 14.5 | |
| DF16C(2.0)-80DP-0.5V(**) | 679-0078-5-** | 80 | 23.2 | 19.5 | |

■Board to Board 2.5mm Header With metal fitting









[Specific No.] -* *, (* *) (81) :Gold plated, embossed tape packaging

●Board to Board 2.5mm Header with metal fitting, with boss

Unit: mm

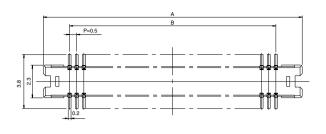
| Part Number | CL No. | Number of Contacts | А | В | С | D | Е |
|-------------------------|---------------|--------------------|------|------|------|------|------|
| DF16(2.5)-20DP-0.5V(**) | 679-0082-2-** | 20 | 8.2 | 4.5 | 8.0 | 6.8 | 5.9 |
| DF16(2.5)-30DP-0.5V(**) | 679-0083-5-** | 30 | 10.7 | 7.0 | 10.5 | 9.3 | 8.4 |
| DF16(2.5)-34DP-0.5V(**) | 679-0089-1-** | 34 | 11.7 | 8.0 | 11.5 | 10.3 | 9.4 |
| DF16(2.5)-40DP-0.5V(**) | 679-0084-8-** | 40 | 13.2 | 9.5 | 13.0 | 11.8 | 10.9 |
| DF16(2.5)-50DP-0.5V(**) | 679-0085-0-** | 50 | 15.7 | 12.0 | 15.5 | 14.3 | 13.4 |
| DF16(2.5)-60DP-0.5V(**) | 679-0086-3-** | 60 | 18.2 | 14.5 | 18.0 | 16.8 | 15.9 |

●Board to Board 2.5mm Header with metal fitting, without boss

| Part Number | CL No. | Number of Contacts | А | В | С | D | Е |
|--------------------------|---------------|--------------------|------|------|------|------|---|
| DF16B(2.5)-20DP-0.5V(**) | 679-0102-8-** | 20 | 8.2 | 4.5 | 8.0 | 6.8 | _ |
| DF16B(2.5)-30DP-0.5V(**) | 679-0103-0-** | 30 | 10.7 | 7.0 | 10.5 | 9.3 | _ |
| DF16B(2.5)-34DP-0.5V(**) | 679-0109-7-** | 34 | 11.7 | 8.0 | 11.5 | 10.3 | _ |
| DF16B(2.5)-40DP-0.5V(**) | 679-0104-3-** | 40 | 13.2 | 9.5 | 13.0 | 11.8 | |
| DF16B(2.5)-50DP-0.5V(**) | 679-0105-6-** | 50 | 15.7 | 12.0 | 15.5 | 14.3 | _ |
| DF16B(2.5)-60DP-0.5V(**) | 679-0106-9-** | 60 | 18.2 | 14.5 | 18.0 | 16.8 | _ |

■Board to Board 2.5mm Header Without metal fitting











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

(81) :Gold plated, embossed tape packaging

●Board to Board 2.5mm Header without metal fitting, with boss

Unit: mm

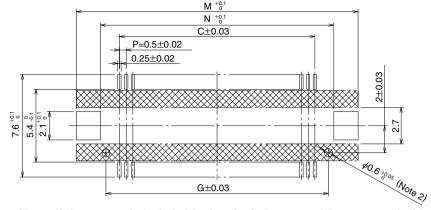
| Part Number | CL No. | Number of Contacts | A | В | Е |
|--------------------------|---------------|--------------------|------|------|------|
| DF16A(2.5)-20DP-0.5V(**) | 679-0092-6-** | 20 | 8.2 | 4.5 | 5.9 |
| DF16A(2.5)-30DP-0.5V(**) | 679-0093-9-** | 30 | 10.7 | 7.0 | 8.4 |
| DF16A(2.5)-34DP-0.5V(**) | 679-0099-5-** | 34 | 11.7 | 8.0 | 9.4 |
| DF16A(2.5)-40DP-0.5V(**) | 679-0094-1-** | 40 | 13.2 | 9.5 | 10.9 |
| DF16A(2.5)-50DP-0.5V(**) | 679-0095-4-** | 50 | 15.7 | 12.0 | 13.4 |
| DF16A(2.5)-60DP-0.5V(**) | 679-0096-7-** | 60 | 18.2 | 14.5 | 15.9 |

●Board to Board 2.5mm Header without metal fitting, without boss

| Part Number | CL No. | Number of Contacts | А | В | E |
|--------------------------|---------------|--------------------|------|------|---|
| DF16C(2.5)-20DP-0.5V(**) | 679-0112-1-** | 20 | 8.2 | 4.5 | |
| DF16C(2.5)-30DP-0.5V(**) | 679-0113-4-** | 30 | 10.7 | 7.0 | _ |
| DF16C(2.5)-34DP-0.5V(**) | 679-0119-0-** | 34 | 11.7 | 8.0 | |
| DF16C(2.5)-40DP-0.5V(**) | 679-0114-7-** | 40 | 13.2 | 9.5 | _ |
| DF16C(2.5)-50DP-0.5V(**) | 679-0115-0-** | 50 | 15.7 | 12.0 | _ |
| DF16C(2.5)-60DP-0.5V(**) | 679-0116-2-** | 60 | 18.2 | 14.5 | |

■Recommended PCB mounting pattern

•Receptacle

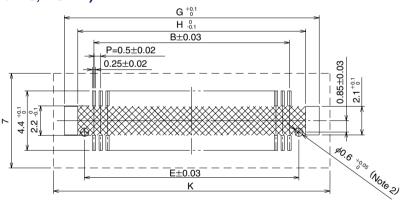


Note1: If the pattern is included in the shaded area, and is not treated with resist, it could touch the connector contact.

Note2: If the boss isn't included, the boss hole shown in the above isn't required.

| Number of Contacts | С | G | M | N |
|--------------------|------|------|------|------|
| 14 | 3.0 | 5.0 | 9.4 | 5.8 |
| 16 | 3.5 | 5.5 | 9.9 | 6.3 |
| 20 | 4.5 | 6.5 | 10.9 | 7.3 |
| 30 | 7.0 | 9.0 | 13.4 | 9.8 |
| 34 | 8.0 | 10.0 | 14.4 | 10.8 |
| 40 | 9.5 | 11.5 | 15.9 | 12.3 |
| 50 | 12.0 | 14.0 | 18.4 | 14.8 |
| 60 | 14.5 | 16.5 | 20.9 | 17.3 |
| 80 | 19.5 | 21.5 | 25.9 | 22.3 |

●Header (Board to Board 2.0, 2.5mm)



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

Note2: If the boss isn't included, the boss hole shown in the above isn't required.

Note3: Don't install any part in the shaded area. If installed, the connectors can't be mated with each other.

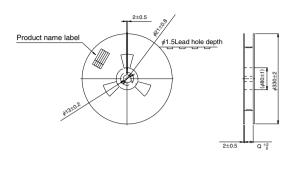
| Number of Contacts | В | E | G | Н | K |
|--------------------|------|------|------|------|------|
| 14 | 3.0 | 4.4 | 7.4 | 5.4 | 9.0 |
| 16 | 3.5 | 4.9 | 7.9 | 5.9 | 9.5 |
| 20 | 4.5 | 5.9 | 8.9 | 6.9 | 10.5 |
| 30 | 7.0 | 8.4 | 11.4 | 9.4 | 13.0 |
| 34 | 8.0 | 9.4 | 12.4 | 10.4 | 14.0 |
| 40 | 9.5 | 10.9 | 13.9 | 11.9 | 15.5 |
| 50 | 12.0 | 13.4 | 16.4 | 14.4 | 18.0 |
| 60 | 14.5 | 15.9 | 18.9 | 16.9 | 20.5 |
| 80 | 19.5 | 20.9 | 23.9 | 21.9 | 25.5 |

■Embossed Carrier Tape Dimensions

•Receptacle

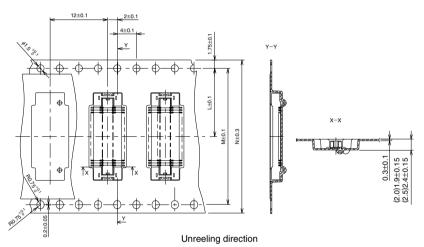
Unreeling direction

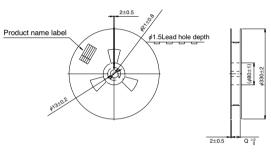
Reel Dimensions



●Header

Reel Dimensions





| Product Name | N | M | L | Q |
|--------------------------|------|------|------|------|
| DF16#-14DS-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#-16DS-0.5V | 24.0 | _ | 11.5 | 24.4 |
| DF16#-20DS-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#-30DS-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#-34DS-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#-40DS-0.5V | 32.0 | 28.4 | 14.2 | 32.4 |
| DF16#-50DS-0.5V | 32.0 | 28.4 | 14.2 | 32.4 |
| DF16#-60DS-0.5V | 32.0 | 28.4 | 14.2 | 32.4 |
| DF16#-80DS-0.5V | 44.0 | 40.4 | 20.2 | 44.4 |
| DF16#(2.0)-14DP-0.5V | 16.0 | | 7.5 | 16.4 |
| DF16#(2.0)-16DP-0.5V | 16.0 | | 7.5 | 16.4 |
| DF16#(2.0)-34DP-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#(2.0/2.5)-20DP-0.5V | 16.0 | | 7.5 | 16.4 |
| DF16#(2.0/2.5)-30DP-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#(2.0/2.5)-40DP-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#(2.0/2.5)-50DP-0.5V | 24.0 | | 11.5 | 24.4 |
| DF16#(2.0/2.5)-60DP-0.5V | 32.0 | 28.4 | 14.2 | 32.4 |
| DF16#(2.0/2.5)-80DP-0.5V | 44.0 | 40.4 | 20.2 | 44.4 |

Precautions

