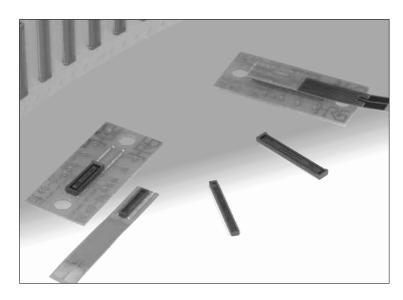
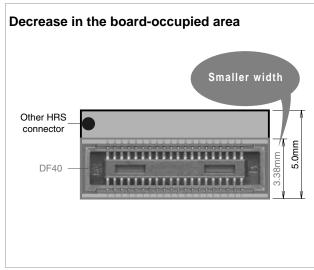


## 0.4 mm Contact Pitch Board-to-Board /Board-to-FPC Connectors

#### **DF40 Series**





#### **■**Features

# Higher density of the board-mounted components Extremely small board mounting pattern and low above-the-board profile makes the connectors ideally suited for small device applications.

#### 2. Stacking height variation: 1.5mm to 4.0mm

### 3. High contact reliability

Despite connectors small size and low profile the contacts provide strong contact forces and long contact wipe (0.45 mm), guaranteeing reliable electrical and mechanical performance.

# 4. Large self-alignment distance

The connectors will self-align within 0.33 mm.

#### 5. Confirmation of the fully mated condition

Positive "click" sensation confirms correct insertion and connection of all contacts.

#### 6. Built-in shock absorbing feature

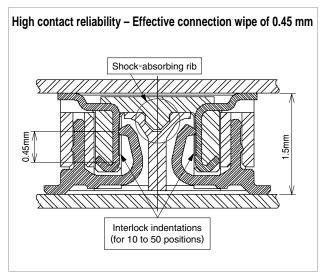
The protrusions and indents in the insulator bodies protect the connectors from failures when exposed to sudden impact.

#### 7. Solder wicking prevention

Nickel-plated barriers provide protection against solder wicking into the contact areas.

#### 8. Contact area protection

External walls protect the exposed contact areas from intrusion of flux or foreign particles.



#### Stacking Height variation

| Stacking<br>Height |     | 1.5mm | 2.0mm       | 2.5mm       | 3.0mm | 3.5mm | 4.0mm       |
|--------------------|-----|-------|-------------|-------------|-------|-------|-------------|
|                    | 10  | 0     |             |             |       |       | _           |
|                    | 20  |       |             | 0           | _     |       |             |
|                    | 24  | 0     |             |             |       |       | _           |
|                    | 30  | 0     | 0           | $\triangle$ | 0     | 0     |             |
|                    | 40  |       |             | Δ           | _     | _     |             |
| Pos.               | 44  |       | $\triangle$ | _           | 0     |       |             |
| ا م                | 50  | 0     | 0           | 0           | 0     |       | $\triangle$ |
|                    | 60  | 0     | 0           | 0           | 0     | 0     | _           |
|                    | 70  |       |             |             | 0     |       |             |
|                    | 80  |       |             | _           |       | _     |             |
|                    | 90  | Ô     |             |             |       |       |             |
|                    | 100 | Ô     |             |             |       |       |             |

△: Reserved for product expansion

# **■**Product Specifications

| Ratings  Current rating 0.3A  Voltage rating 30V AC, DC  Operation temperature range -35°C to +85°C (Note 1)  Operation temperature range -35°C to +85°C (Note 1)  Storage temperature range -10°C to +60°C (Note 2)  Storage humidity range RH 40% to 70% (Note 3) |
|---|
|---|

| Item                                 | Specification  | Conditions   |
|--------------------------------------|--|--|
| 1. Insulation resistance             | 50 MΩ min.   | 100V DC  |
| 2. Withstanding voltage              | No flashover or insulation breakdown.  | 100V AC / one minute   |
| 3. Contact resistance                | 90 mΩ max.   | 1mA, 20mV AC, 1 kHz  |
| 4. Vibration                         | No electrical discontinuity of 1 $\mu$ s or more.                                | Frequency: 10 to 55 Hz, single amplitude of 0.75mm, 2 hours, 3 axis  |
| 5. Humidity                          | Contact resistance: 90 m $\Omega$ max. Insulation resistance: 25 M $\Omega$ min. | 96 hours at +40±2℃ and humidity of 90% to 95%.   |
| 6. Temperature cycle                 | Contact resistance: 90 m $\Omega$ max. Insulation resistance: 50 M $\Omega$ min. | Temperature: $-55 \rightarrow +5 \degree$ to $35 \degree \rightarrow +85 \degree \rightarrow +5 \degree$ to $+35 \degree$ Time: $30 \rightarrow 10 \rightarrow 30 \rightarrow 10$ (Minutes) 5 cycles |
| 7. Durability (insertion/withdrawal) | Contact resistance: 90 mΩ max.   | 30 cycles  |
| 8. Resistance to soldering heat      | No deformation of components affecting performance.                              | Reflow: At the recommended temperature profile Manual soldering: 350°C for 3 seconds   |

Note 1: Includes temperature rise caused by current flow.

#### **■**Materials

| Product     | Part      | Material        | Finish        | Remarks |
|-------------|-----------|-----------------|---------------|---------|
| Receptacles | Insulator | LCP             | Color : Black | UL94V-0 |
| Headers     | Contacts  | Phosphor bronze | Gold plated   |         |

# **■**Ordering information



| Series Name : DF40                 | • | 3 Stacking Height  |                 |  | Connector Type                      |
|------------------------------------|---|--------------------|-----------------|--|-------------------------------------|
| 2 Configuration                    |   |                    | Stacking Height |  | DS : Double-row receptacle          |
| C: Without metal fittings          |   | Blank              | 1.5mm           |  | 6 Contact Pitch : 0.4mm             |
|                                    |   | 2.0                | 2.0mm           |  | Terminal Type V: SMT vertical mount |
| HC: Without metal fittings         |   | 2.5                | 2.5mm           |  | _                                   |
| (Stacking height : 2.5mm to 4.0mm) |   | 3.0                | 3.0mm           |  | Packaging                           |
|                                    |   | 3.5                | 3.5mm           |  | (51): Embossed tape packaging       |
|                                    |   | 4.0                | 4.0mm           |  |                                     |
|                                    |   | Number of Contacts |                 |  |                                     |

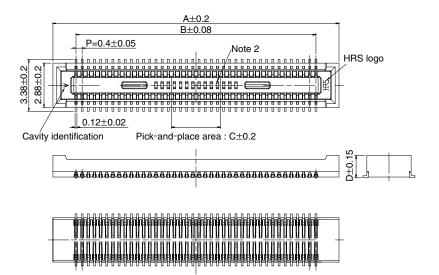
| ●Header | DF40 | # - | * | DP · | - 0.4 | ٧ | (**) |
|---------|------|-----|---|------|-------|---|------|
|         |      | 2   | 3 | 4    | 6     | 6 |      |

| Series Name : DF40        | Number of Contacts         | 5 Contact Pitch : 0.4mm             |
|---------------------------|----------------------------|-------------------------------------|
| Configuration             | 4 Connector Type           | Terminal Type V: SMT vertical mount |
| C: Without metal fittings | DP : Double-row pin header | Packaging                           |
|                           |                            | (51): Embossed tape packaging       |
|                           |                            |                                     |

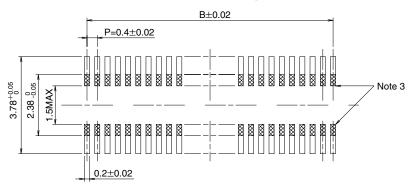
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating temperature range and humidity range covers non-conducting condition of installed connectors in storage, shipment or during transportation.

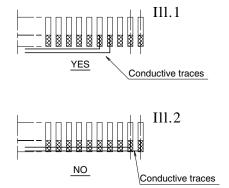
# ■Receptacles (Stacking Height: 1.5mm)





# **■**Recommended PCB mounting pattern





[Specification number]

(51): Embossed tape packaging (5,000 pieces per reel)

#### Stacking Height: 1.5mm

Unit: mm

|                      |               |                    |      |      |     | Ornic mini |
|----------------------|---------------|--------------------|------|------|-----|------------|
| Part Number          | CL No.        | Number of contacts | Α    | В    | С   | D          |
| DF40C- 10DS-0.4V(51) | 684-4036-2-51 | 10                 | 4.6  | 1.6  | 1.0 | 1.45       |
| DF40C- 20DS-0.4V(51) | 684-4005-9-51 | 20                 | 6.6  | 3.6  | 1.0 | 1.45       |
| DF40C- 24DS-0.4V(51) | 684-4006-1-51 | 24                 | 7.4  | 4.4  | 1.2 | 1.45       |
| DF40C- 30DS-0.4V(51) | 684-4007-4-51 | 30                 | 8.6  | 5.6  | 1.5 | 1.45       |
| DF40C- 40DS-0.4V(51) | 684-4008-7-51 | 40                 | 10.6 | 7.6  | 3.2 | 1.45       |
| DF40C- 50DS-0.4V(51) | 684-4009-0-51 | 50                 | 12.6 | 9.6  | 3.2 | 1.45       |
| DF40C- 60DS-0.4V(51) | 684-4004-6-51 | 60                 | 14.6 | 11.6 | 3.2 | 1.45       |
| DF40C- 70DS-0.4V(51) | 684-4016-5-51 | 70                 | 16.6 | 13.6 | 3.2 | 1.45       |
| DF40C- 80DS-0.4V(51) | 684-4002-0-51 | 80                 | 18.6 | 15.6 | 3.2 | 1.45       |
| DF40C- 90DS-0.4V(51) | 684-4124-8-51 | 90                 | 20.6 | 17.6 | 3.2 | 1.45       |
| DF40C-100DS-0.4V(51) | 684-4033-4-51 | 100                | 22.6 | 19.6 | 3.2 | 1.45       |

Note 1: Order by number of reels.

Note 2: Connectors with 60 or 100 contacts may have several recessed areas in this location. Pick-and-place operation will NOT be affected.

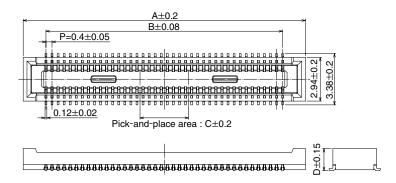
Note 3: No conductive traces through the areas indicated by

Refer to III.1 and III.2. for specific restrictions and exception to the above requirement.

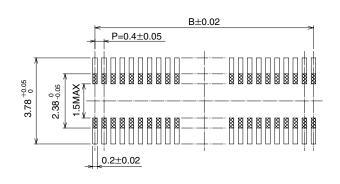
Note 4: This connector is NOT polarized.

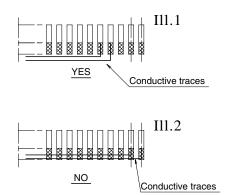
# ■Receptacles (Stacking Height : 2.0mm)





# **■**Recommended PCB mounting pattern





[Specification number] (51): Embossed tape packaging (4,000 pieces per reel)

#### Stacking Height: 2.0mm

| Stacking Height: 2.0mm    |                                |                    |      |      |     |      |  |
|---------------------------|--------------------------------|--------------------|------|------|-----|------|--|
| Part Number               | CL No.                         | Number of contacts | Α    | В    | С   | D    |  |
| DF40C(2.0)- 20DS-0.4V(51) | 684-4040-0-51                  | 20                 | 6.6  | 3.6  | 1.0 | 1.95 |  |
| DF40C(2.0)- 30DS-0.4V(51) | 684-4058-5-51                  | 30                 | 8.6  | 5.6  | 1.5 | 1.95 |  |
| DF40C(2.0)- 40DS-0.4V(51) | 684-4042-5-51                  | 40                 | 10.6 | 7.6  | 3.2 | 1.95 |  |
| DF40C(2.0)- 44DS-0.4V(51) | Reserved for product expansion | 44                 | 11.4 | 8.4  | 3.2 | 1.95 |  |
| DF40C(2.0)- 50DS-0.4V(51) | 684-4091-0-51                  | 50                 | 12.6 | 9.6  | 3.2 | 1.95 |  |
| DF40C(2.0)- 60DS-0.4V(51) | 684-4034-7-51                  | 60                 | 14.6 | 11.6 | 3.2 | 1.95 |  |
| DF40C(2.0)- 70DS-0.4V(51) | 684-4147-3-51                  | 70                 | 16.6 | 13.6 | 3.2 | 1.95 |  |
| DF40C(2.0)- 80DS-0.4V(51) | 684-4132-6-51                  | 80                 | 18.6 | 15.6 | 3.2 | 1.95 |  |

Note 1: Order by number of reels.

Note 2: Connectors with 60 or 100 contacts may have several recessed areas in this location. Pick-and-place operation will NOT be affected.

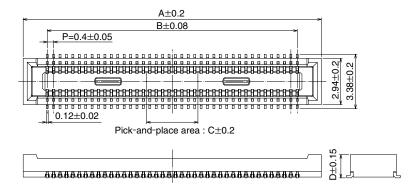
Note 3: No conductive traces through the areas indicated by

Refer to III.1 and III.2. for specific restrictions and exception to the above requirement.

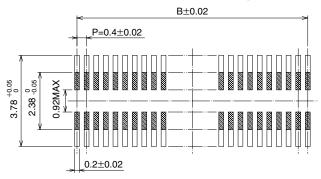
Note 4: This connector is NOT polarized.

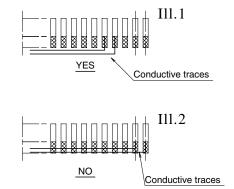
# ■Receptacles (Stacking Height : 2.5mm to 4.0mm)





# ■Recommended PCB mounting pattern





#### Stacking Height: 2.5mm

| [Specification number]                                |
|---|
| (51): Embossed tape packaging (3,000 pieces per reel) |

Unit: mm

| Part Number                | CL No.                         | Number of contacts | Α    | В    | С   | D   |
|----------------------------|--------------------------------|--------------------|------|------|-----|-----|
| DF40HC(2.5)- 20DS-0.4V(51) | 684-4126-3-51                  | 20                 | 6.6  | 3.6  | 1.0 | 2.4 |
| DF40HC(2.5)- 30DS-0.4V(51) | Reserved for product expansion | 30                 | 8.6  | 5.6  | 1.5 | 2.4 |
| DF40HC(2.5)- 40DS-0.4V(51) | Reserved for product expansion | 40                 | 10.6 | 7.6  | 3.2 | 2.4 |
| DF40HC(2.5)- 50DS-0.4V(51) | 684-4101-2-51                  | 50                 | 12.6 | 9.6  | 3.2 | 2.4 |
| DF40HC(2.5)- 60DS-0.4V(51) | 684-4085-8-51                  | 60                 | 14.6 | 11.6 | 3.2 | 2.4 |

#### Stacking Height: 3.0mm

[Specification number]

(51): Embossed tape packaging (3,000 pieces per reel)

Unit: mm

|                            |               | ·                  |      |      |     |     |
|----------------------------|---------------|--------------------|------|------|-----|-----|
| Part Number                | CL No.        | Number of contacts | Α    | В    | С   | D   |
| DF40HC(3.0)- 30DS-0.4V(51) | 684-4098-0-51 | 30                 | 8.6  | 5.6  | 1.5 | 2.9 |
| DF40HC(3.0)- 44DS-0.4V(51) | 684-4076-7-51 | 44                 | 11.4 | 8.4  | 3.2 | 2.9 |
| DF40HC(3.0)- 50DS-0.4V(51) | 684-4099-2-51 | 50                 | 12.6 | 9.6  | 3.2 | 2.9 |
| DF40HC(3.0)- 60DS-0.4V(51) | 684-4100-0-51 | 60                 | 14.6 | 11.6 | 3.2 | 2.9 |
| DF40HC(3.0)- 70DS-0.4V(51) | 684-4138-2-51 | 70                 | 16.6 | 13.6 | 3.2 | 2.9 |

#### Stacking Height: 3.5mm

[Specification number] (51): Embossed tape packaging (2,000 pieces per reel)

Unit: mm

| Part Number                | CL No.        | Number of contacts | Α    | В    | С   | D   |
|----------------------------|---------------|--------------------|------|------|-----|-----|
| DF40HC(3.5)- 30DS-0.4V(51) | 684-4136-7-51 | 30                 | 8.6  | 5.6  | 1.5 | 3.4 |
| DF40HC(3.5)- 50DS-0.4V(51) | 684-4109-4-51 | 50                 | 12.6 | 9.6  | 3.2 | 3.4 |
| DF40HC(3.5)- 60DS-0.4V(51) | 684-4102-5-51 | 60                 | 14.6 | 11.6 | 3.2 | 3.4 |

#### Stacking Height: 4.0mm

[Specification number] (51): Embossed tape packaging (2,000 pieces per reel)

Unit: mm

| Part Number                | CL No.                         | Number of contacts | Α    | В    | С   | D   |
|----------------------------|--------------------------------|--------------------|------|------|-----|-----|
| DF40HC(4.0)- 40DS-0.4V(51) | Reserved for product expansion | 40                 | 10.6 | 7.6  | 3.2 | 3.9 |
| DF40HC(4.0)- 50DS-0.4V(51) | Reserved for product expansion | 50                 | 12.6 | 9.6  | 3.2 | 3.9 |
| DF40HC(4.0)- 80DS-0.4V(51) | 684-4140-4-51                  | 80                 | 18.6 | 15.6 | 3.2 | 3.9 |

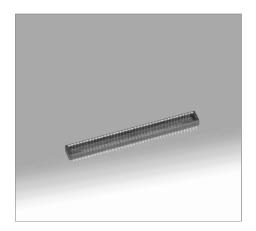
Note 1: Order by number of reels.

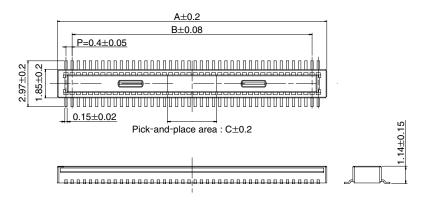
Note 2: Connectors with 60 or 100 contacts may have several recessed areas in this location. Pick-and-place operation will NOT be affected.

Refer to III.1 and III.2. for specific restrictions and exception to the above requirement.

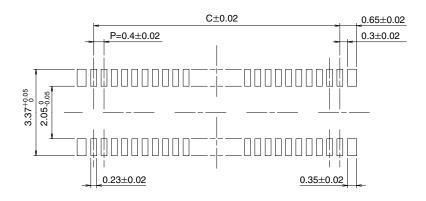
Note 4: This connector is NOT polarized.

## **■**Header





# ■Recommended PCB mounting pattern



[Specification number]

(51): Embossed tape packaging (5,000 pieces per reel)

Unit: mm

|                      |               |                    |       |      | Unit: mm |
|----------------------|---------------|--------------------|-------|------|----------|
| Part Number          | CL No.        | Number of contacts | Α     | В    | С        |
| DF40C- 10DP-0.4V(51) | 684-4035-0-51 | 10                 | 3.52  | 1.6  | 1.0      |
| DF40C- 20DP-0.4V(51) | 684-4010-9-51 | 20                 | 5.52  | 3.6  | 1.0      |
| DF40C- 24DP-0.4V(51) | 684-4011-1-51 | 24                 | 6.32  | 4.4  | 1.2      |
| DF40C- 30DP-0.4V(51) | 684-4012-4-51 | 30                 | 7.52  | 5.6  | 1.5      |
| DF40C- 40DP-0.4V(51) | 684-4013-7-51 | 40                 | 9.52  | 7.6  | 3.2      |
| DF40C- 44DP-0.4V(51) | 684-4077-0-51 | 44                 | 10.32 | 8.4  | 3.2      |
| DF40C- 50DP-0.4V(51) | 684-4014-0-51 | 50                 | 11.52 | 9.6  | 3.2      |
| DF40C- 60DP-0.4V(51) | 684-4003-3-51 | 60                 | 13.52 | 11.6 | 3.2      |
| DF40C- 70DP-0.4V(51) | 684-4015-2-51 | 70                 | 15.52 | 13.6 | 3.2      |
| DF40C- 80DP-0.4V(51) | 684-4001-8-51 | 80                 | 17.52 | 15.6 | 3.2      |
| DF40C- 90DP-0.4V(51) | 684-4125-0-51 | 90                 | 19.52 | 17.6 | 3.2      |
| DF40C-100DP-0.4V(51) | 684-4032-1-51 | 100                | 21.52 | 19.6 | 3.2      |
|                      |               |                    |       |      |          |

Note 1: Order by number of reels.

Note 2: 60 or 100 positions connectors will not have small interlock indentations in the contact areas.

Note 3: The contacts in each of the 4 corners serve as metal solder brackets only and should NOT be used for current carrying.

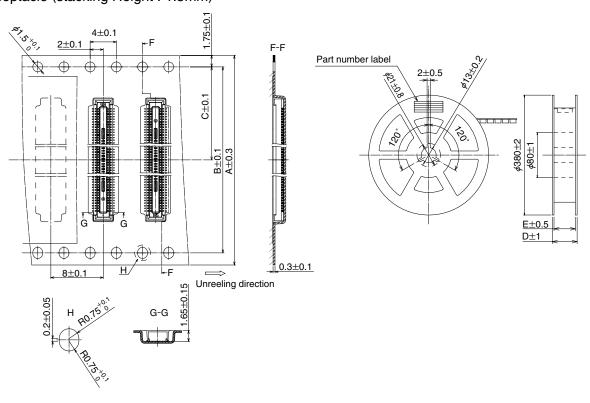
Note 4: Location of the HRS logo and cavity identification mark may differ from what is shown.

Note 5: This connector is not polarized.

# **■**Packaging Specification

Embossed Carrier Tape Dimensions
 Receptacle (stacking Height: 1.5mm)

#### Reel Dimensions



## Stacking Height: 1.5mm

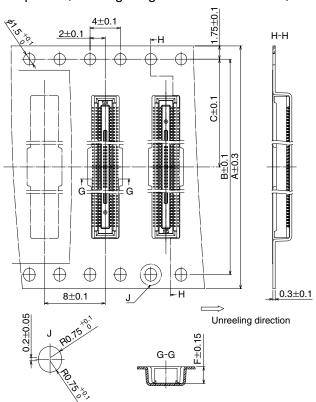
Unit: mm

| Part Number          | A    | В    | С    | D    | Е    |
|----------------------|------|------|------|------|------|
| DF40C- 10DS-0.4V(51) | 16.0 | _    | 7.5  | 21.5 | 17.5 |
| DF40C- 20DS-0.4V(51) | 16.0 | _    | 7.5  | 21.5 | 17.5 |
| DF40C- 24DS-0.4V(51) | 16.0 | _    | 7.5  | 21.5 | 17.5 |
| DF40C- 30DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 |
| DF40C- 40DS-0.4V(51) | 24.0 | _    | 11.5 | 29.5 | 25.5 |
| DF40C- 50DS-0.4V(51) | 24.0 | _    | 11.5 | 29.5 | 25.5 |
| DF40C- 60DS-0.4V(51) | 24.0 | _    | 11.5 | 29.5 | 25.5 |
| DF40C- 70DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 |
| DF40C- 80DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 |
| DF40C- 90DS-0.4V(51) | 44.0 | 40.4 | 20.2 | 49.5 | 45.5 |
| DF40C-100DS-0.4V(51) | 44.0 | 40.4 | 20.2 | 49.5 | 45.5 |

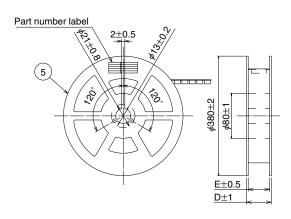
Note: Bottom side deed holes are added to embossed tape when A = 32.0 or greater

#### Embossed Carrier Tape Dimensions

#### - Receptacle (stacking Height : 2.0mm to 3.0mm)



#### Reel Dimensions



## Stacking Height: 2.0mm

Unit: mm

| Part Number              | Α    | В    | С    | D    | E    | F   |
|--------------------------|------|------|------|------|------|-----|
| DF40C(2.0)-20DS-0.4V(51) | 16.0 |      | 7.5  | 21.5 | 17.5 | 2.2 |
| DF40C(2.0)-30DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 2.2 |
| DF40C(2.0)-40DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 2.2 |
| DF40C(2.0)-44DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 2.2 |
| DF40C(2.0)-50DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 2.2 |
| DF40C(2.0)-60DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 2.2 |
| DF40C(2.0)-70DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 | 2.2 |
| DF40C(2.0)-80DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 | 2.2 |

#### Stacking Height: 2.5mm

Unit: mm

| Part Number               | А    | В | С    | D    | Е    | F    |
|---------------------------|------|---|------|------|------|------|
| DF40HC(2.5)-20DS-0.4V(51) | 16.0 |   | 7.5  | 21.5 | 17.5 | 2.72 |
| DF40HC(2.5)-30DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 2.72 |
| DF40HC(2.5)-40DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 2.72 |
| DF40HC(2.5)-50DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 2.72 |
| DF40HC(2.5)-60DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 2.72 |

#### Stacking Height: 3.0mm

Unit: mm

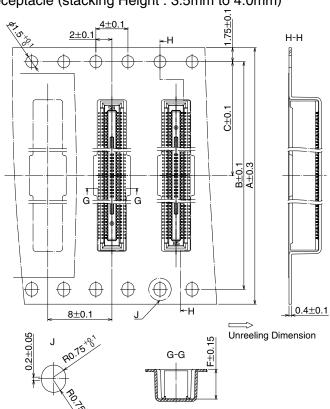
| Part Number               | Α    | В    | С    | D    | Е    | F    |
|---------------------------|------|------|------|------|------|------|
| DF40HC(3.0)-30DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 3.15 |
| DF40HC(3.0)-44DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 3.15 |
| DF40HC(3.0)-50DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 3.15 |
| DF40HC(3.0)-60DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 3.15 |
| DF40HC(3.0)-70DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 | 3.15 |

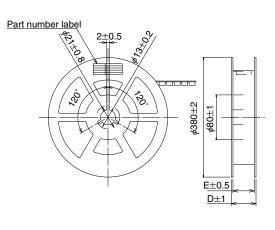
Note : Bottom side deed holes are added to embossed tape when A = 32.0 or greater

#### Embossed Carrier Tape Dimensions

#### - Receptacle (stacking Height : 3.5mm to 4.0mm)

#### Reel Dimensions





Stacking Height: 3.5mm

Unit: mm

| Part Number               | Α    | В | С    | D    | E    | F    |
|---------------------------|------|---|------|------|------|------|
| DF40HC(3.5)-30DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 3.72 |
| DF40HC(3.5)-50DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 3.72 |
| DF40HC(3.5)-60DS-0.4V(51) | 24.0 |   | 11.5 | 29.5 | 25.5 | 3.72 |

• Stacking Height: 4.0mm

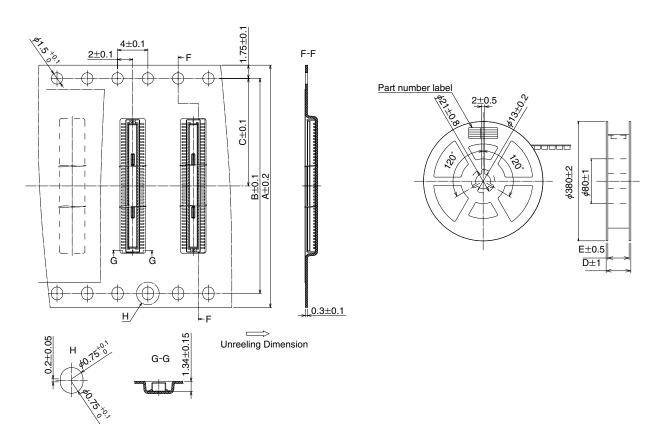
Unit: mm

|                           |      |      |      |      |      | •    |
|---------------------------|------|------|------|------|------|------|
| Part Number               | А    | В    | С    | D    | Е    | F    |
| DF40HC(4.0)-40DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 4.22 |
| DF40HC(4.0)-50DS-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 | 4.22 |
| DF40HC(4.0)-80DS-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 | 4.22 |

Note: Bottom side deed holes are added to embossed tape when A = 32.0 or greater

#### Embossed Carrier Tape Dimensions - Header

#### Reel Dimensions

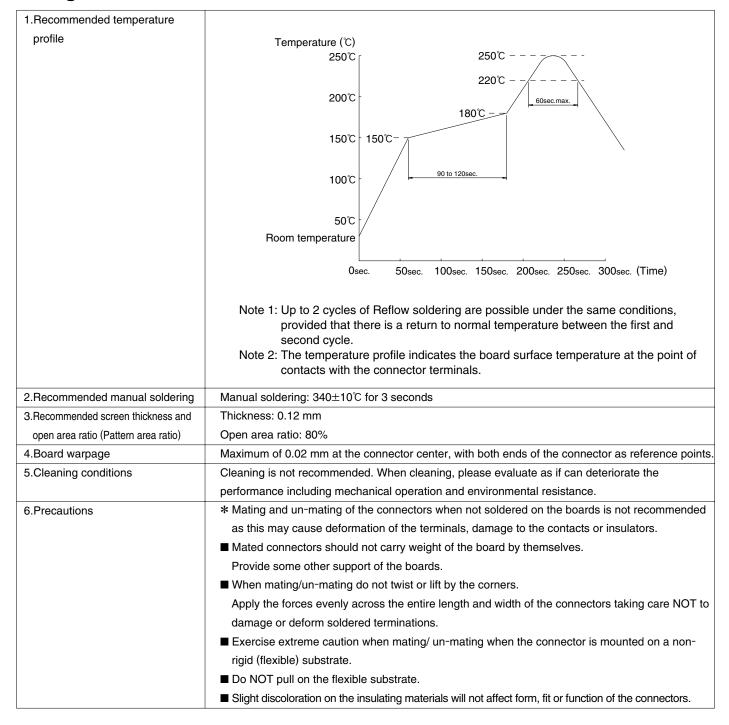


Unit: mm

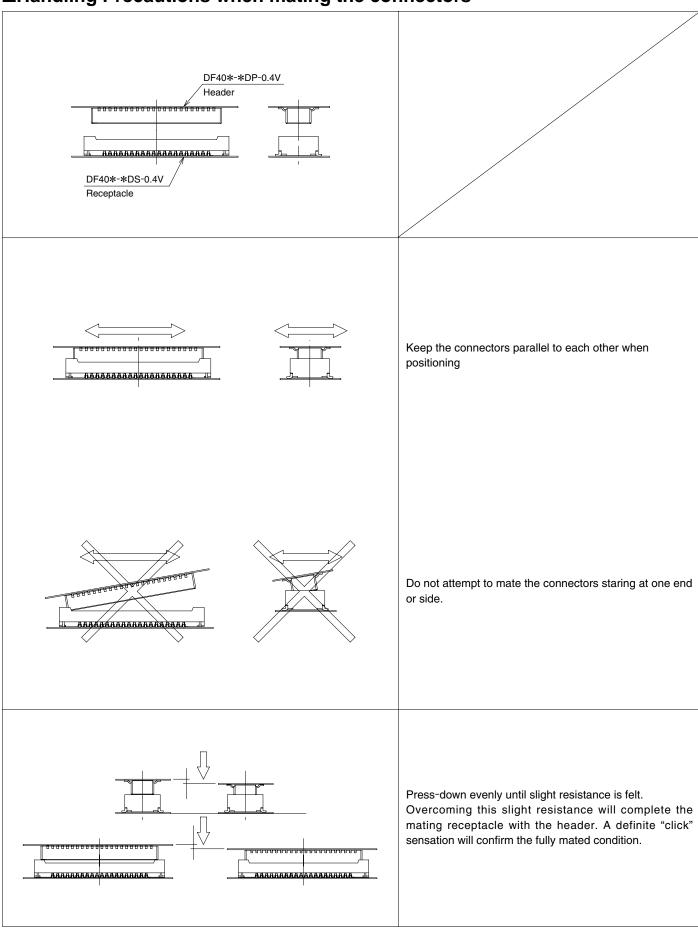
| Part Number          | A    | В    | С    | D    | E    |
|----------------------|------|------|------|------|------|
| DF40C- 10DP-0.4V(51) | 12.0 |      | 5.5  | 17.5 | 13.5 |
| DF40C- 20DP-0.4V(51) | 16.0 | _    | 7.5  | 21.5 | 17.5 |
| DF40C- 24DP-0.4V(51) | 16.0 |      | 7.5  | 21.5 | 17.5 |
| DF40C- 30DP-0.4V(51) | 16.0 |      | 7.5  | 21.5 | 17.5 |
| DF40C- 40DP-0.4V(51) | 24.0 | _    | 11.5 | 29.5 | 25.5 |
| DF40C- 44DP-0.4V(51) | 24.0 | _    | 11.5 | 29.5 | 25.5 |
| DF40C- 50DP-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 |
| DF40C- 60DP-0.4V(51) | 24.0 |      | 11.5 | 29.5 | 25.5 |
| DF40C- 70DP-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 |
| DF40C- 80DP-0.4V(51) | 32.0 | 28.4 | 14.2 | 37.5 | 33.5 |
| DF40C- 90DP-0.4V(51) | 44.0 | 40.4 | 20.2 | 49.5 | 45.5 |
| DF40C-100DP-0.4V(51) | 44.0 | 40.4 | 20.2 | 49.5 | 45.5 |

Note: Bottom side deed holes are added to embossed tape when A = 32.0 or greater

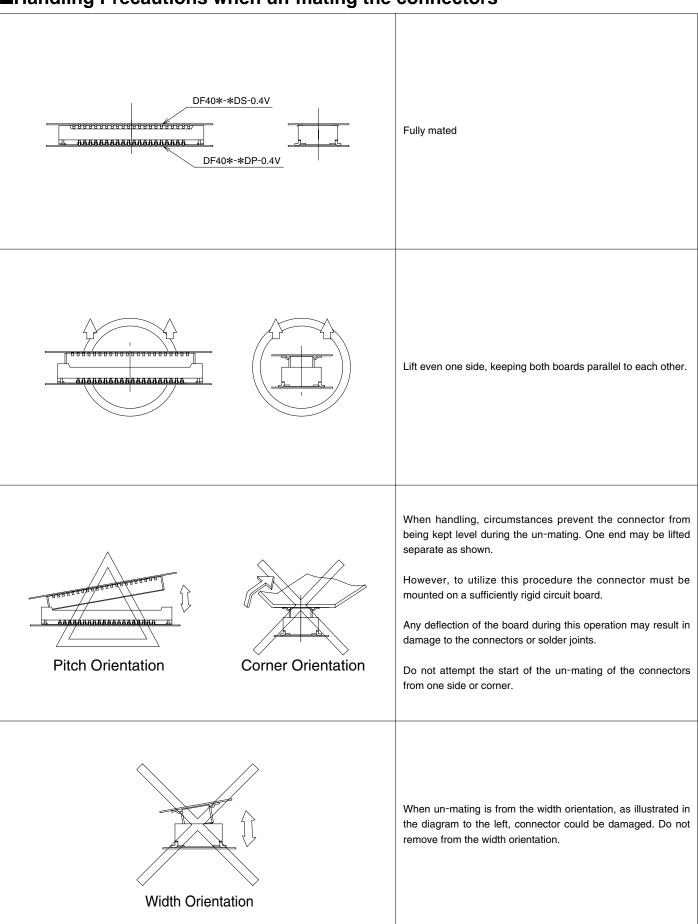
# **■**Usage Recommendations



# **■**Handling Precautions when mating the connectors



# **■**Handling Precautions when un-mating the connectors



# **■**Handling Precautions when un-mating the connectors

