

DF40T/DF40GT Series

0.4mm Pitch, 3.38mm Depth, 125°C Heat Resistance, Board-to-Board Connector for Automotive



Features

1. Space-saving Design and Wide Variations

The space-saving design with 0.4mm pitch and 3.38mm depth, a wide variety of number of pos. and height variation

(1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm).

(Note)

MP: Mass Production UP: Under Planning

| Stacking Height (mm) | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
|----------------------------|-----|-----|-----|-----|-----|-----|
| 10pos. | MP | - | 1 | _ | _ | - |
| 20pos. | UP | UP | MP | MP | MP | MP |
| 30pos. | MP | UP | MP | MP | MP | MP |
| 34pos. | MP | _ | - | _ | _ | _ |
| 40pos. | MP | UP | UP | MP | MP | MP |
| 50pos. | MP | _ | MP | _ | _ | MP |
| 120pos. | MP | _ | _ | _ | _ | _ |

2. 125°C Heat Resistant **Contact Design**

Design and Materials for Heat Resistance, Stable Contact Resistance

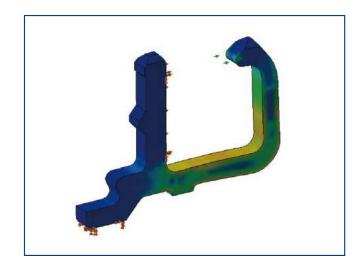
Heat resistance test 125℃ after 1,000h

Contact resistance AVG : Initial 19.05 \rightarrow after 1,000h 18.62m Ω

Temperature cycle test -55 to 125℃ after 1,000 cycles

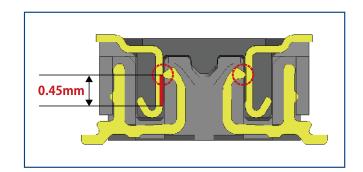
Contact resistance AVG:

Initial 19.76 \rightarrow after 1,000 cycles 20.05m Ω



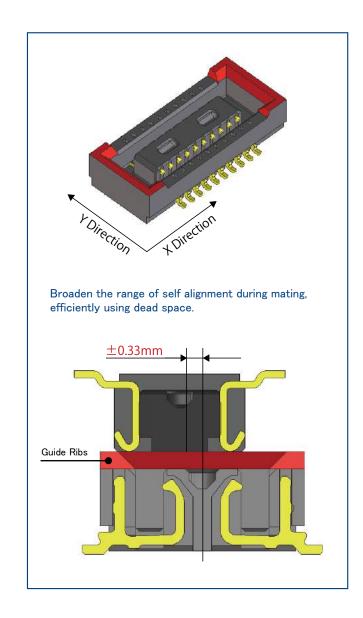
3. World Longest Class Effective **Mating Length**

Stable connection with the world's largest effective mating length realization



4. Guide Ribs for Wide Self Alignment Range

Self Alignment Range: ± 0.33 mm in X and Y Directions Achieves smooth Mating Operation

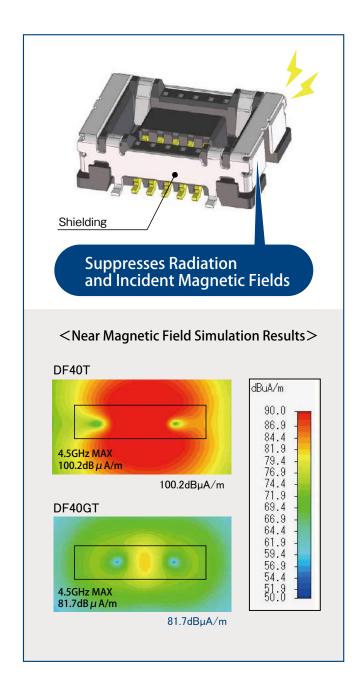


5. Satisfies PCI Express 4.0 (16Gbps)

All DF40T series is applicable to the PCI Express 4.0 transmission.

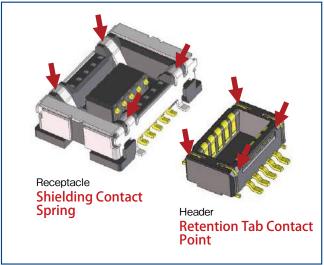
6. Metal Shielding for Superior EMI [DF40GT]

EMI prevention by shield plate on receptacle side. Magnetic Field Reduced by 18.5dB μ A/m with Shield Plate



7. Reliable Ground Design [DF40GT]

The contact area between the shield plate and the retention tab placed at the four corners strengthens grounding.



Ground connection on dead space



Applications

It can be used as a FPC-to-Board connector inside in-vehicle applications such as cameras, millimeter-wave radar, and LiDAR.

Product Specifications

| Rated Current | 0.3A | Operating Temperature (Note 1) | -55 to +125℃ |
|---------------|-----------|--------------------------------|--------------|
| Rated Voltage | 30V AC/DC | Storage Temperature (Note 2) | -10 to +60℃ |

| Item | Specifications | Conditions |
|---|---|--|
| Contact Resistance | 90m Ω Max. | Measured at 20mV AC, 1kHz, 1mA |
| Insulation Resistance | 50M Ω Min. | Measured at 100V DC |
| Withstand Voltage | No Flashover or Breakdown | 100V AC for 1 min. |
| Mating Durability | Contact Resistance : $90m\Omega$ Max. No damage, cracks or part dislocation. | 10 times |
| Vibration Resistance | There should be no electrical interruption of 1 μ s Min. No damage, cracks or part dislocation. | Frequency 10 to 500Hz, Acceleration 49m/s ² Swept speed 1oct/min 8 hours each of 3-axis direction |
| Heat Resistance | Contact Resistance : $90m\Omega$ Max. No damage, cracks or part dislocation. | Left for 1000 hours at Temperature 125 ± 2℃ |
| Moisture Resistance | Contact Resistance : $90m\ \Omega$ Max. Insulation Resistance : $25M\ \Omega$ Min. No damage, cracks or part dislocation. | Temperature -10 \rightarrow +65°C , RH In 90 - 96% Left for 10 cycles (240 hours) |
| Temperature Cycles Contact Resistance : 90m Ω Max. No damage, cracks or part dislocation. | | Temperature -55°C: 30min. → +125°C: 30min., 1000 cycles (Tank transfer time: 2 to 3min.) |
| Solder Heat Resistance | No deformation in appearance or significant damage to contacts. | Reflow: According to the Recommended Temperature Profile Hand Soldering: 350°C within 3 sec. |

Note 1: Includes the temperature rise due to current flow.

Note 2: Use without condensation.

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

Operating temperature and humidity range apply when the product is not powered after PCB mounting and when temporarily stored during transportation.

Materials / Finish

■125°C Heat Resistant Standard Type (DF40T)

| Product | Component | Material | Color / Finish | Remarks |
|------------|----------------|--------------|----------------|---------|
| Header | Housing | LCP | Black | UL94V-0 |
| Receptacle | Signal Contact | Copper Alloy | Gold Plating | - |

■125°C Heat Resistant Shielded Type (DF40GT)

| Product | Component | Material | Color / Finish | Remarks |
|------------|----------------|--------------|----------------|---------|
| | Housing | LCP | Black | UL94V-0 |
| Header | Signal Contact | Copper Alloy | Gold Plating | - |
| | Retention Tab | Copper Alloy | Gold Plating | - |
| | Housing | LCP | Black | UL94V-0 |
| Receptacle | Signal Contact | Copper Alloy | Gold Plating | - |
| | Shield | Copper Alloy | Gold Plating | - |



Product Number Structure

Please utilize the below part number chart when selecting.

■ DF40T (125°C Heat Resistant Standard Type)

Header

| <u>DF40</u> | <u>#</u> - | <u>#</u> | <u>DP</u> - | <u>0.4</u> | <u>V</u> | <u>(##)</u> |
|-------------|------------|----------|-------------|------------|----------|-------------|
| • | 2 | B | 4 | 6 | 6 | |

| Series Name | DF40 | 6 Contact Pitch | 0.4mm |
|------------------|----------------------------|-----------------|---------------------------|
| 2 Shape Symbol | TC : No Retention Tab | 6 Contact Type | V : Straight SMT |
| No. of Pos. | 10, 20, 30, 34, 40, 50 | | (51): Embossed Packaging |
| 4 Connector Type | DP : Double Row Pin Header | | (88) : Embossed Packaging |

Receptacle

<u>DF40 # (##) - # DS - 0.4 V (##)</u>

| 0 | Series Name | DF40 | 4 No. of Pos. | 10, 20, 30, 34, 40, 50 |
|---|---------------|--|------------------|----------------------------|
| 2 | Shape Symbol. | TB : Retention Tab TC : No Retention Tab | 6 Connector Type | DS : Double Row Receptacle |
| 3 | | None: 1.5mm | 6 Contact Pitch | 0.4mm |
| | | 2.0 : 2.0mm 2.5 : 2.5mm | 7 Contact Type | V : Straight SMT |
| | | 3.0 : 3.0mm | 8 Packaging Type | (51) : Embossed Packaging |
| | | 3.5 : 3.5mm | | (88) : Embossed Packaging |
| | | 4.0 : 4.0mm | | |

■ DF40GT (125°C Heat Resistant Shield Type)

Header

<u>DF40 GT - # DP - 0.4 V (51)</u>

| 1 Series Name | DF40 | 6 Contact Pitch | 0.4mm |
|------------------|----------------------------|-----------------|--------------------------|
| 2 Shape Symbol | GT : With Shield | 6 Contact Type | V : Straight SMT |
| No. of Pos. | 10 | Packaging Type | (51): Embossed Packaging |
| 4 Connector Type | DP : Double Row Pin Header | | |

Receptacle

<u>DF40 GT (##) - # DS - 0.4 V (51)</u>

| | 1 Series Name | DF40 | 6 Connector Type | DS : Double Row Receptacle |
|---|-------------------|------------------|------------------|----------------------------|
| | 2 Shape Symbol | GT : With Shield | 6 Contact Pitch | 0.4mm |
| | 3 Stacking Height | 1.5 : 1.5mm | 7 Contact Type | V : Straight SMT |
| Ì | A No. of Pos. | 10 | Packaging Type | (51): Embossed Packaging |

Combinations

■125°C Heat Resistant Standard Type (DF40T)

Unit: mm

| Receptacle / Header | DF40TC-##DP-0.4V(51) Stacking Height |
|---------------------------|---|
| DF40TC-##DS-0.4V(51) | 1.5 |
| DF40TC(2.0)-##DS-0.4V(51) | 2.0 |
| DF40TC(2.5)-##DS-0.4V(51) | 2.5 |
| DF40TC(3.0)-##DS-0.4V(51) | 3.0 |
| DF40TC(3.5)-##DS-0.4V(51) | 3.5 |
| DF40TC(4.0)-##DS-0.4V(51) | 4.0 |

■125°C Heat Resistant Shielded Type (DF40GT)

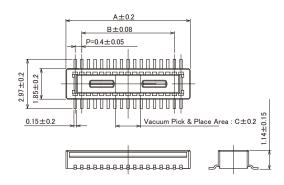
Unit: mm

| Receptacle / Header | DF40GT-10DP-0.4V(51) Stacking Height | |
|---------------------------|--------------------------------------|--|
| DF40GT(1.5)-10DS-0.4V(51) | 1.5 | |

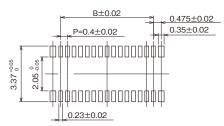


DF40T (125°C Heat Resistant Standard Type) Header





Recommended PCB Layout



Recommended Metal Mask Thickness: 0.12mm, Open Area Ratio: 80%

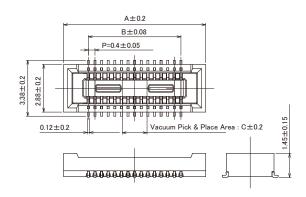
Unit: mm

| Part No. | HRS No. | No. of Pos. | А | В | С | Purchase Unit |
|-----------------------|------------------|-------------|-------|-------|------|---|
| DF40TC-10DP-0.4V(51) | CL0684-4269-0-51 | 10 | 3.52 | 1.60 | 1.00 | |
| DF40TC-20DP-0.4V(51) | CL0684-4262-0-51 | 20 | 5.52 | 3.60 | 1.00 | |
| DF40TC-30DP-0.4V(51) | CL0684-4263-0-51 | 30 | 7.52 | 5.60 | 1.50 | |
| DF40TC-34DP-0.4V(51) | CL0684-4255-0-51 | 34 | 8.32 | 6.40 | 2.30 | 5,000pcs per reel |
| DF40TC-40DP-0.4V(51) | CL0684-4264-0-51 | 40 | 9.52 | 7.60 | 3.20 | , |
| DF40TC-50DP-0.4V(51) | CL0684-4268-0-51 | 50 | 11.52 | 9.60 | 3.20 | |
| DF40TC-120DP-0.4V(88) | CL0684-4295-0-88 | 120 | 25.52 | 23.60 | 3.20 | |

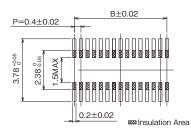
Note 1: Please order embossed tape packaged items by the reel.

DF40T (125℃ Heat Resistant Standard Type) Receptacle (Stacking Height 1.5mm)





Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Aperture Ratio: 80%

Unit: mm

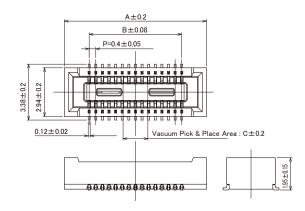
| Part No. | HRS No. | No. of Pos. | Α | В | С | Purchase Unit |
|-----------------------|------------------|-------------|------|------|-----|---|
| DF40TB-10DS-0.4V(51) | CL0684-4273-0-51 | 10 | 4.6 | 1.6 | 1.0 | |
| DF40TC-20DS-0.4V(51) | Under Planning | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC-30DS-0.4V(51) | CL0684-4261-0-51 | 30 | 8.6 | 5.6 | 1.5 | |
| DF40TC-34DS-0.4V(51) | CL0684-4240-0-51 | 34 | 9.4 | 6.4 | 2.3 | 5,000pcs per reel |
| DF40TC-40DS-0.4V(51) | CL0684-4272-0-51 | 40 | 10.6 | 7.6 | 3.2 | , |
| DF40TC-50DS-0.4V(51) | CL0684-4249-0-51 | 50 | 12.6 | 9.6 | 3.2 | |
| DF40TC-120DS-0.4V(88) | CL0684-4296-0-88 | 120 | 26.6 | 23.6 | 3.2 | |

Note 1: Please order embossed tape packaged items by the reel.

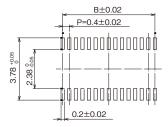


DF40T (125°C Heat Resistant Standard Type) Receptacle (Stacking Height 2.0mm)





Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Aperture Ratio: 80%

Unit: mm

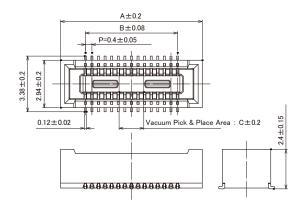
| Part No. | HRS No. | No. of Pos. | А | В | С | Purchase Unit |
|---------------------------|----------------|----------------|------|-----|-----|----------------------|
| DF40TC(2.0)-20DS-0.4V(51) | Under Planning | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC(2.0)-30DS-0.4V(51) | Under Planning | 30 | 8.6 | 5.6 | 1.5 | 4,000pcs per reel |
| DF40TC(2.0)-40DS-0.4V(51) | Under Planning | 40 | 10.6 | 7.6 | 3.2 | , I |

Note 1: Please order embossed tape packaged items by the reel.

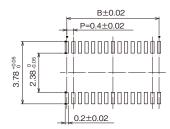
DF40T (125°C Heat Resistant Standard Type) Receptacle (Stacking Height 2.5mm to 4.0mm)

Stacking Height 2.5mm





Recommended PCB Pattern



Recommended Metal Mask Thickness : 0.12mm, Open Area Ratio : 80%

Unit: mm

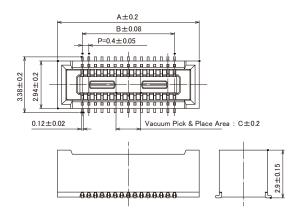
| Part No. | HRS No. | No. of Pos. | Α | В | С | Purchase Unit |
|---------------------------|------------------|----------------|------|-----|-----|------------------|
| DF40TC(2.5)-20DS-0.4V(51) | CL0684-4280-0-51 | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC(2.5)-30DS-0.4V(51) | CL0684-4266-0-51 | 30 | 8.6 | 5.6 | 1.5 | 3,000pcs |
| DF40TC(2.5)-40DS-0.4V(51) | Under Planning | 40 | 10.6 | 7.6 | 3.2 | per reel |
| DF40TC(2.5)-50DS-0.4V(51) | CL0684-4279-0-51 | 50 | 12.6 | 9.6 | 3.2 | |

Note 1: Please order embossed tape packaged items by the reel.

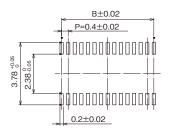


Stacking Height 3.0mm





Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Open Area Ratio: 80%

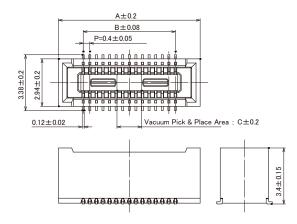
Unit: mm

| Part No. | HRS No. | No. of Pos. | А | В | С | Purchase Unit |
|---------------------------|------------------|----------------|------|-----|-----|----------------------|
| DF40TC(3.0)-20DS-0.4V(51) | CL0684-4275-0-51 | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC(3.0)-30DS-0.4V(51) | CL0684-4242-0-51 | 30 | 8.6 | 5.6 | 1.5 | 3,000pcs per reel |
| DF40TC(3.0)-40DS-0.4V(51) | CL0684-4276-0-51 | 40 | 10.6 | 7.6 | 3.2 | |

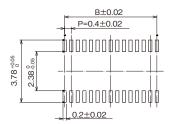
Note 1: Please order embossed tape packaged items by the reel.

Stacking Height 3.5mm





Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Open Area Ratio: 80%

Unit: mm

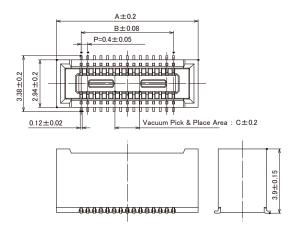
| Part No. | HRS No. | No. of Pos. | А | В | С | Purchase Unit |
|---------------------------|------------------|----------------|------|-----|-----|----------------------|
| DF40TC(3.5)-20DS-0.4V(51) | CL0684-4253-0-51 | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC(3.5)-30DS-0.4V(51) | CL0684-4237-0-51 | 30 | 8.6 | 5.6 | 1.5 | 2,000pcs per reel |
| DF40TC(3.5)-40DS-0.4V(51) | CL0684-4254-0-51 | 40 | 10.6 | 7.6 | 3.2 | , p. 100. |

Note 1 : Please order embossed tape packaged items by the reel.

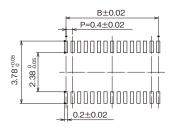


Stacking Height 4.0mm





Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Open Area Ratio: 80%

Unit: mm

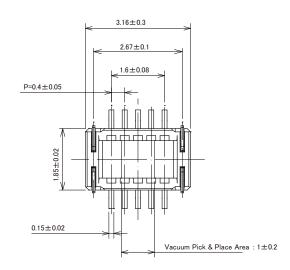
| Part No. | HRS No. | No. of Pos. | А | В | С | Purchase Unit |
|---------------------------|------------------|----------------|------|-----|-----|------------------|
| DF40TC(4.0)-20DS-0.4V(51) | CL0684-4258-0-51 | 20 | 6.6 | 3.6 | 1.0 | |
| DF40TC(4.0)-30DS-0.4V(51) | CL0684-4256-0-51 | 30 | 8.6 | 5.6 | 1.5 | 2,000pcs |
| DF40TC(4.0)-40DS-0.4V(51) | CL0684-4259-0-51 | 40 | 10.6 | 7.6 | 3.2 | per reel |
| DF40TC(4.0)-50DS-0.4V(51) | CL0684-4297-0-51 | 50 | 12.6 | 9.6 | 3.2 | |

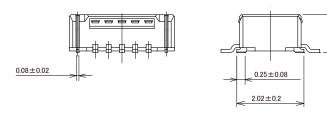
Note 1: Please order embossed tape packaged items by the reel.



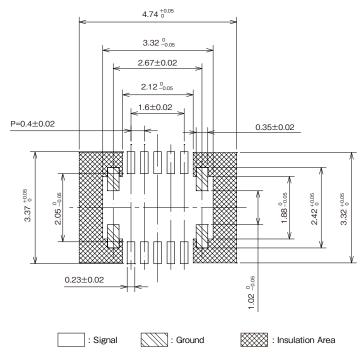
DF40GT (125°C Heat Resistant With Shield Type) Header







Recommended PCB Pattern



Recommended Metal Mask Thickness: 0.12mm, Aperture Ratio: 80%

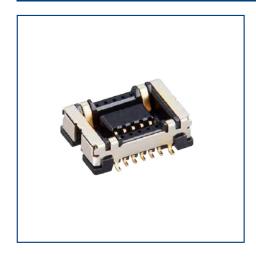
Unit: mm

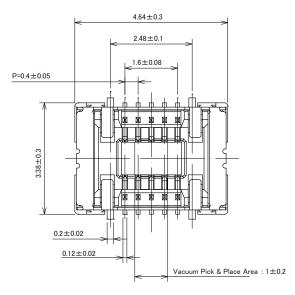
| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|----------------------|------------------|----------------|----------------------|
| DF40GT-10DP-0.4V(51) | CL0684-4260-0-51 | 10 | 5,000pcs per reel |

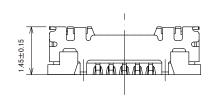
Note 1: Please order embossed tape packaged items by the reel.

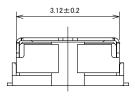


DF40T (125°C Heat Resistant With Shield Type) Receptacle

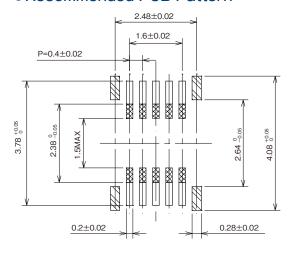








Recommended PCB Pattern



: Ground : Insulation Area : Signal

Recommended Metal Mask Thickness: 0.12mm, Open Area Ratio: 80%

Unit: mm

| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|---------------------------|------------------|----------------|----------------------|
| DF40GT(1.5)-10DS-0.4V(51) | CL0684-4248-0-51 | 10 | 5,000pcs per reel |

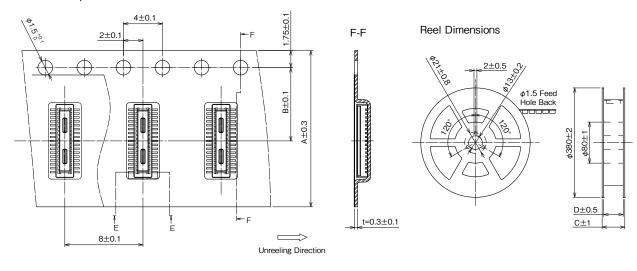
Note 1: Please order embossed tape packaged items by the reel.

Packaging Specifications Diagram (JIS C 0806, IEC 60286 - 3 Compliant)

■ DF40T (125°C Heat Resistant Standard Type)

Header

Embossed Tape Dimensions





 $\mathsf{Unit}:\mathsf{mm}$

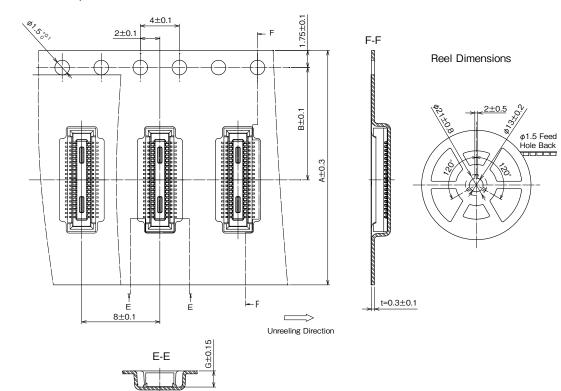
| Part No. | HRS No. | А | В | С | D | Purchase Unit |
|-----------------------|------------------|----|------|------|------|----------------------|
| DF40TC-10DP-0.4V(51) | CL0684-4269-0-51 | 12 | 5.5 | 17.5 | 13.5 | |
| DF40TC-20DP-0.4V(51) | CL0684-4262-0-51 | 16 | 7.5 | 21.5 | 17.5 | |
| DF40TC-30DP-0.4V(51) | CL0684-4263-0-51 | 16 | 7.5 | 21.5 | 17.5 | |
| DF40TC-34DP-0.4V(51) | CL0684-4255-0-51 | 24 | 11.5 | 29.5 | 25.5 | 5,000pcs per reel |
| DF40TC-40DP-0.4V(51) | CL0684-4264-0-51 | 24 | 11.5 | 29.5 | 25.5 | , |
| DF40TC-50DP-0.4V(51) | CL0684-4268-0-51 | 24 | 11.5 | 29.5 | 25.5 | |
| DF40TC-120DP-0.4V(88) | CL0684-4295-0-88 | 44 | 40.4 | 49.5 | 45.5 | |

Note: The hole of the carrier tape for 10 to 60pos. will be only one side.



• Stacking Height 1.5 to 3.0mm

Embossed Tape Dimensions

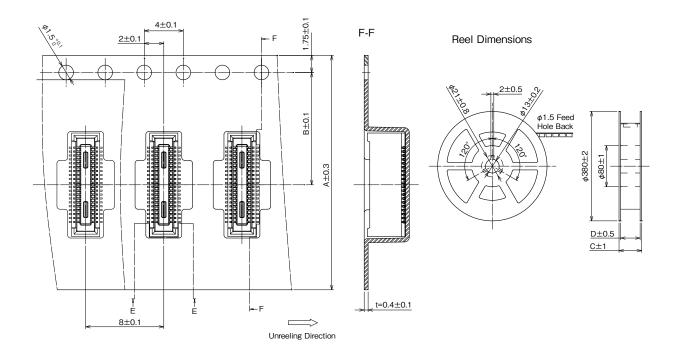


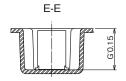
φ380±2 φ80±1

> D±0.5 C±1

● Stacking Height 3.5 to 4.0mm

Embossed Tape Dimensions





● Stacking Height 1.5mm

Unit: mm

| Part No. | HRS No. | Α | В | С | D | G | Purchase Unit |
|-----------------------|------------------|----|------|------|------|------|----------------------|
| DF40TB-10DS-0.4V(51) | CL0684-4273-0-51 | 16 | 7.5 | 21.5 | 17.5 | 1.65 | |
| DF40TC-20DS-0.4V(51) | Under Planning | 16 | 7.5 | 21.5 | 17.5 | 1.65 | |
| DF40TC-30DS-0.4V(51) | CL0684-4261-0-51 | 24 | 11.5 | 29.5 | 25.5 | 1.65 | |
| DF40TC-34DS-0.4V(51) | CL0684-4240-0-51 | 24 | 11.5 | 29.5 | 25.5 | 1.65 | 5,000pcs per reel |
| DF40TC-40DS-0.4V(51) | CL0684-4272-0-51 | 24 | 11.5 | 29.5 | 25.5 | 1.65 | po. 100. |
| DF40TC-50DS-0.4V(51) | CL0684-4249-0-51 | 24 | 11.5 | 29.5 | 25.5 | 1.65 | |
| DF40TC-120DS-0.4V(88) | CL0684-4296-0-88 | 44 | 40.4 | 49.5 | 45.5 | 1.65 | |

Note: The hole of the carrier tape for 10 to 60pos. will be only one side.

● Stacking Height 2.0mm

Unit: mm

| Part No. | HRS No. | А | В | С | D | G | Purchase Unit |
|---------------------------|----------------|----|------|------|------|-----|----------------------|
| DF40TC(2.0)-20DS-0.4V(51) | Under Planning | 16 | 7.5 | 21.5 | 17.5 | 2.2 | |
| DF40TC(2.0)-30DS-0.4V(51) | Under Planning | 24 | 11.5 | 29.5 | 25.5 | 2.2 | 4,000pcs per reel |
| DF40TC(2.0)-40DS-0.4V(51) | Under Planning | 24 | 11.5 | 29.5 | 25.5 | 2.2 | , |

● Stacking Height 2.5mm

Unit: mm

| Part No. | HRS No. | А | В | С | D | G | Purchase Unit |
|---------------------------|------------------|----|------|------|------|------|------------------|
| DF40TC(2.5)-20DS-0.4V(51) | CL0684-4280-0-51 | 16 | 7.5 | 21.5 | 17.5 | 2.72 | |
| DF40TC(2.5)-30DS-0.4V(51) | CL0684-4266-0-51 | 24 | 11.5 | 29.5 | 25.5 | 2.72 | 3,000pcs |
| DF40TC(2.5)-40DS-0.4V(51) | Under Planning | 24 | 11.5 | 29.5 | 25.5 | 2.72 | per reel |
| DF40TC(2.5)-50DS-0.4V(51) | CL0684-4279-0-51 | 24 | 11.5 | 29.5 | 25.5 | 2.72 | |

● Stacking Height 3.0mm

Unit : mm

| Part No. | HRS No. | А | В | С | D | G | Purchase Unit |
|---------------------------|------------------|----|------|------|------|------|----------------------|
| DF40TC(3.0)-20DS-0.4V(51) | CL0684-4275-0-51 | 16 | 7.5 | 21.5 | 17.5 | 3.15 | |
| DF40TC(3.0)-30DS-0.4V(51) | CL0684-4242-0-51 | 24 | 11.5 | 29.5 | 25.5 | 3.15 | 3,000pcs per reel |
| DF40TC(3.0)-40DS-0.4V(51) | CL0684-4276-0-51 | 24 | 11.5 | 29.5 | 25.5 | 3.15 | , |



● Stacking Height 3.5mm

Unit: mm

| Part No. | HRS No. | А | В | С | D | G | Purchase Unit |
|---------------------------|------------------|----|------|------|------|------|----------------------|
| DF40TC(3.5)-20DS-0.4V(51) | CL0684-4253-0-51 | 16 | 7.5 | 21.5 | 17.5 | 3.72 | |
| DF40TC(3.5)-30DS-0.4V(51) | CL0684-4237-0-51 | 24 | 11.5 | 29.5 | 25.5 | 3.72 | 2,000pcs per reel |
| DF40TC(3.5)-40DS-0.4V(51) | CL0684-4254-0-51 | 24 | 11.5 | 29.5 | 25.5 | 3.72 | po: 100. |

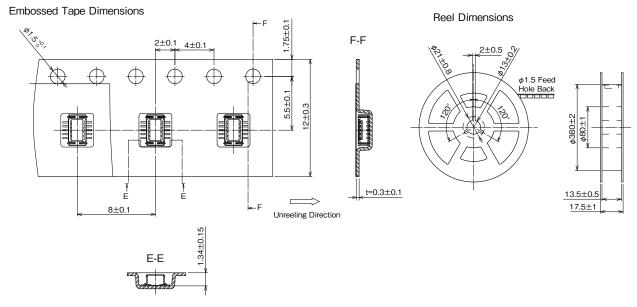
● Stacking Height 4.0mm

Unit : mm

| Part No. | HRS No. | А | В | С | D | G | Purchase Unit |
|---------------------------|------------------|----|------|------|------|------|------------------|
| DF40TC(4.0)-20DS-0.4V(51) | CL0684-4258-0-51 | 16 | 7.5 | 21.5 | 17.5 | 4.22 | |
| DF40TC(4.0)-30DS-0.4V(51) | CL0684-4256-0-51 | 24 | 11.5 | 29.5 | 25.5 | 4.22 | 2,000pcs |
| DF40TC(4.0)-40DS-0.4V(51) | CL0684-4259-0-51 | 24 | 11.5 | 29.5 | 25.5 | 4.22 | per reel |
| DF40TC(4.0)-50DS-0.4V(51) | CL0684-4297-0-51 | 24 | 11.5 | 29.5 | 25.5 | 4.22 | |

■ DF40GT (125°C Heat Resistant Standard Type)

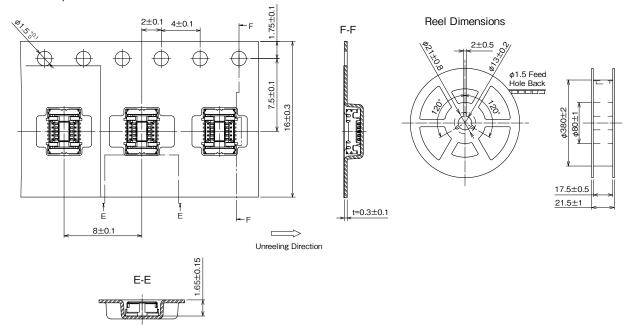
Header



| Part No. HRS No. | | No. of Pos. | Purchase Unit | |
|----------------------|------------------|----------------|----------------------|--|
| DF40GT-10DP-0.4V(51) | CL0684-4260-0-51 | 10 | 5,000pcs per reel | |

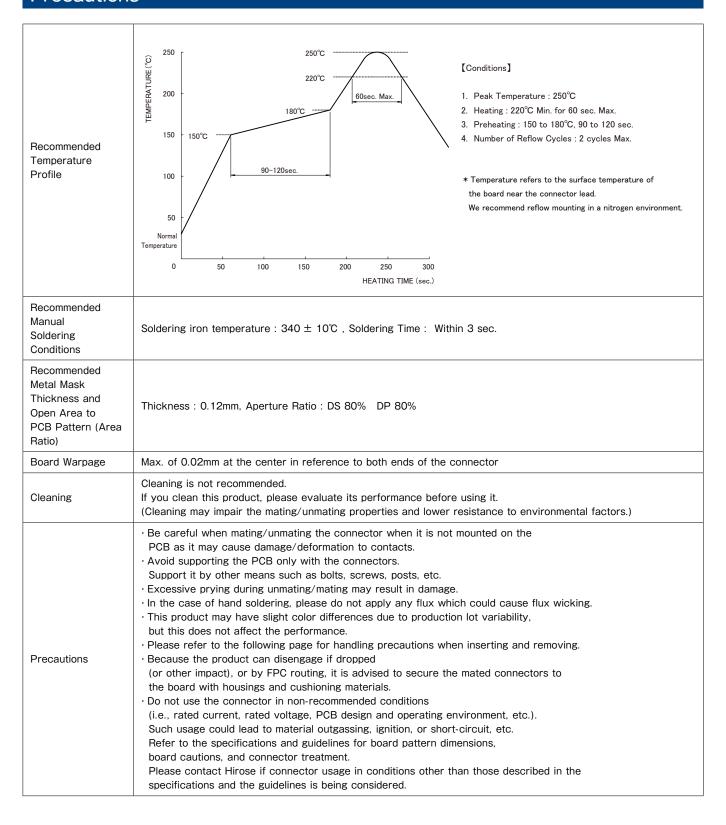
Receptacle

Embossed Tape Dimensions



| Part No. | HRS No. | No. of Pos. | Purchase Unit |
|---------------------------|------------------|----------------|----------------------|
| DF40GT(1.5)-10DS-0.4V(51) | CL0684-4248-0-51 | 10 | 5,000pcs per reel |

Precautions





Precautions for Handling During Use

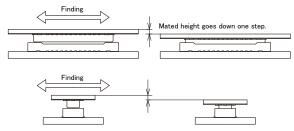
[Mating Method of Connector]

When Mating this Item, please do so by hand.

Mating Method

1. Locate the guide port and align. This product has a guide rib on the header to ensure proper engagement. Once aligned, the connector engages. You can feel the mated height of the connector lower.

Move the connector forward and backward, left and right to find the guide port



2. In the engaged state, the connectors are parallel to each other, and the connectors cannot move forward, backward, left, or right. Complete mating from this state.

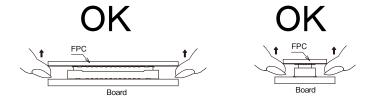


3. Check that mating is completed. If one side is floating, or if it is mated at a diagonal, remove and re-mate.

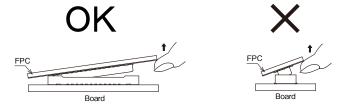
[Handling Precautions for Connector Removal]

1. When removing the connector, it is preferable to pull it out in the upward direction from the connector mounting surface.

However, when removing the FPC from the circuit board it becomes more difficult to remove it vertically with higher pin counts and thin FPCs.



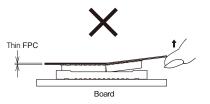
2. If difficult to remove, extract the connector diagonally in the direction of the pitch. Note that removal from the widthwise side will apply a large load to the contacts.

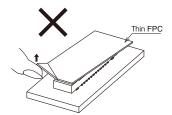




3. If the FPC does not have sufficient rigidity, solder stripping or connector breakage may occur. Please use it after checking the repetitive operation with a flexible board in advance, such as during a trial

Refrain from holding the corner of the flexible board and removing it diagonally as it will result in a large load to the contacts.





While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.