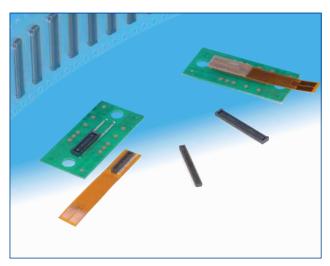
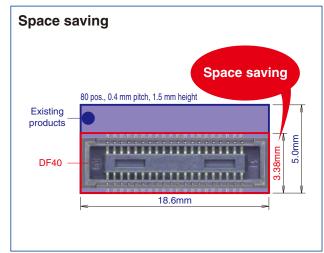
0.4 mm Pitch, 1.5 to 4.0 mm Height, Board-to-Board and Board-to-FPC Connectors

DF40 Series





■Features

1. High density mounting

Space saving design that has a minimum connector width, yet still retains a sufficient vacuum area for easy pick-and-place mounting Minimum width: 3.38 mm

2. Multiple stack height options

In addition to its space saving design, several stack heights are available and add versatility to any application. Stack heights: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 3.5 mm, and 4.0 mm.

3. High contact reliability

Despite its small stature and low profile, the contacts deliver strong contact forces and an effective mating length of 0.45 mm on the 1.5 mm stacking height. This connector utilizes a locking system that prevents accidental unmating issues and emits a clear tactile click to ensure that mating has been completed.

4. Excellent self-aligning range

The use of guide ribs allows 0.33 mm of selfalignment on this connector.

5. Reinforced structure with shock absorbing ribs

Both sides of the connector have been reinforced with the addition of shock absorbing ribs.

6. Solder wicking prevention

Nickel-plated barriers were added to protect the contact areas from potential solder wicking.

7. Contamination resistant design

When mated, the connector's design covers the contacts which help to keep dust and other debris away from the contacts. The SMT leads are kept very close to the connector housing which also helps to prevent shorts caused by debris on the exposed contacts

8. RoHS compliant

Environment friendly and does not use RoHS specified prohibited materials.

All materials and substances used to produce these parts comply with the RoHS standards.

9. High speed signal with noise prevention

The shielded type can support high speed signal transmissions with noise prevention.

High contact reliability - effective mating length 0.45 mm Shock absorption ribs Lock system (10 pos. to 50 pos.)

Stacking height variations

Standard type

Stac hei	king ght	1.5 mm	2.0 mm	2.5 mm	3.0 mm	3.5 mm	4.0 mm
	10	0	-	0	_	_	_
	12	\triangle	0	_	_	_	_
	20	0	0	0	_	0	_
	24	0	0	_	_	_	_
7	30	0	0	0	0	0	_
	34	0	_	_	_	_	_
으	40	0	0	0	_	0	0
် ရ	44	_	0	_	0	_	_
No. of Contact	50	0	0	0	0	0	0
=	60	0	0	0	0	0	0
	70	0	0	_	0	_	_
	80	0	0	_	0	0	
	90	0	_	_	0	_	0
	100	0	_	_	0	_	_

_____ Products under development

Shielded type

51110100 a type						
Stacking height		1.5 mm	3.0 mm			
8-2	30	0	_			
No. of Contacts	48	0	0			
ots	70	_	0			

■Product Specifications

		Operating Temperature Range	Storage Temperature Range
Ratings	Rated Current 0.3A	-35 ~ 85°C (Note 1)	-10 ~ 60°C (Note 2)
	Rated Voltage AC,DC 30V	Operating Humidity Range	Storage Humidity Range
		20 ~ 80%	40 ~ 70% (Note 2)

Items	Specifications	Conditions
1. Insulation Resistance	Minimum of 50 MΩ	Measured with DC 100 V
2. Withstanding Voltage	No flashover or breakdown	Apply AC 100 V for 1 minute
3. Contact Resistance	Maximum of 90 mΩ	Measured with AC 20 mV, 1 kHz and 1 mA
4. Vibration Resistance	No electrical discontinuity of $1\mu s$ or greater	Frequency 10-55 Hz, half amplitude 0.75 mm, 3 directions for 2 hours
5. Humidity Resistance	Contact resistance Maximum of 90 m Ω Insulation resistance Minimum of 25 m Ω	Left at temperature $40 \pm 2^{\circ}\text{C}$, humidity 90 to 95%, 96 hours
6. Temperature Cycles	Contact resistance Maximum of 90 m Ω Insulation resistance Minimum of 50 m Ω	(-55°C: 30 minutes \rightarrow 5~35°C: 10 minutes \rightarrow 85°C: 30 minutes \rightarrow 5~35°C: 10 minutes) 5 cycles
7. Durability	Contact Resistance: Maximum of 90 mΩ	30 mating cycles
8. Soldering Heat Resistance	Should be no melting of resin parts that affects its performance	Reflow: according to the Recommended Temperature Profile Hand solder: Soldering iron temperature 350°C, no more than 3 seconds.

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" here refers to products stored for a long period prior to board mounting and use. The operating temperature and humidity range covers the non-energized condition of connectors after board mounting and the temporary storage conditions during transportation, etc.

■Materials (Standard, non shielded type)

Product	Component	Materials	Finish	UL Regulation
Pagantagla	Insulator	LCP	Black	UL94V-0
Receptacle	Contact	Phosphor bronze	Gold plating	
Hooder	Insulator	LCP	Black	UL94V-0
Header	Contact	Phosphor bronze	Gold plating	

■Materials (Shielded type)

Product	Component	Materials	Finish	UL Regulation
	Insulator	LCP	Black	UL94V-0
Receptacle	Contact	Phosphor bronze	Gold plating	
	Shield plate	Phosphor bronze	Gold plating	
	Insulator	LCP	Black	UL94V-0
Header	Contact	Phosphor bronze	Gold plating	
	Reinforcing metal fitting	Phosphor bronze	Gold plating	

■Product Number Structure (Standard, non-shielded type)

Refer to this page when determining product specifications by model types. Please place orders with part numbers listed in this catalog. The characteristics and specifications of the product described in this catalog are reference values. Please make sure to check the latest delivery specifications at the time of product use.

Receptacle

$$\frac{\mathsf{DF40}}{\bullet} \ \frac{\#}{2} \ - \ \frac{(**)}{\bullet} \ - \ \frac{*}{4} \ \frac{\mathsf{DS}}{\bullet} \ - \ \frac{0.4}{\bullet} \ \frac{\mathsf{V}}{\bullet} \ \frac{(**)}{\bullet}$$

- Series Name: DF40
- 2 Style C: Without reinforcing metal fitting HC: Without reinforcing metal fitting (The H denotes a stacking

height 2.5 mm or above)

3 Stacking height

	-9
Display	Stacking height
None	1.5mm
2.0	2.0mm
2.5	2.5mm
3.0	3.0mm
3.5	3.5mm
4.0	4.0mm

- 4 No. of Contacts
- 6 Connector Type DS: Double row receptacle
- 6 Contact Pitch: 0.4mm
- Mating direction Shape V: Vertical SMT
- 8 Packaging Type (51) Embossed tape packaging

●Header

$$\frac{\mathsf{DF40}}{\bullet} \ \frac{\#}{2} \ - \ \frac{*}{6} \ \frac{\mathsf{DP}}{\bullet} \ - \ \frac{0.4}{6} \ \frac{\mathsf{V}}{6} \ \frac{(**)}{\bullet}$$

•	Series Name: DF40	3	No. of Contacts	6	Contact Pitch: 0.4 mm
•	Style	4	Connector Type	6	Mating direction V: Vertical SMT
	C: Without reinforcing metal fitting		DP: Double row pin header		Packaging Type (51) Embossed tape packaging

■Product Number Structure (Shielded type)

Refer to this page when determining product specifications by model types. Please place orders with part numbers listed in this catalog. The characteristics and specifications of the product described in this catalog are reference values. Please make sure to check the latest delivery specifications at the time of product use.

3.0mm

Receptacle

GB: With shield

$$\frac{\mathsf{DF40}}{\bullet} \ \frac{\mathsf{GB}}{\bullet} \ - \ \frac{(**)}{\bullet} \ - \ \frac{*}{\bullet} \ \frac{\mathsf{DS}}{\bullet} \ - \ \frac{0.4}{\bullet} \ \frac{\mathsf{V}}{\bullet} \ \frac{(**)}{\bullet}$$

3.0

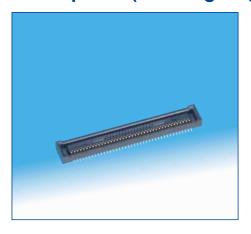
- Series Name: DF40 Style
 - 3 Stacking height Stacking height Display 1.5 1.5mm
- 6 Connector Type DS: Double row receptacle
- 6 Contact Pitch: 0.4 mm Mating direction V: Vertical SMT
- 4 No. of Contacts 8 Packaging Type (51) Embossed tape packaging

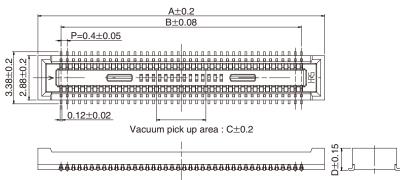
●Header

$$\frac{DF40}{0} \frac{GB}{2} - \frac{*}{3} \frac{DP}{0} - \frac{0.4}{3} \frac{V}{0} \frac{(**)}{0}$$

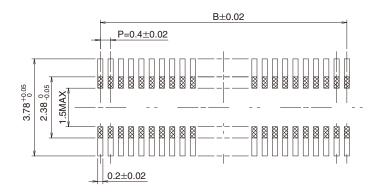
Series Name: DF40	3 No. of Contacts	5 Contact Pitch: 0.4 mm
2 Style	4 Connector Type	6 Mating direction V: Vertical SMT
GB: With reinforcing metal fitting (For use with shielded product)	DP: Double row pin header	Packaging Type(51) Embossed tape packaging

■Receptacle (Stacking height 1.5 mm)





●Recommended PCB layout



■Stacking height 1.5 mm

[Specification No.]

(51): Embossed package 5,000 pieces per reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40C-10DS-0.4V(51)	CL684-4036-2-51	10	4.6	1.6	1.0	1.45	
DF40C-12DS-0.4V(51)	Under development	12	5.0	2.0	1.0	1.45	
DF40C-20DS-0.4V(51)	CL684-4005-9-51	20	6.6	3.6	1.0	1.45	
DF40C-24DS-0.4V(51)	CL684-4006-1-51	24	7.4	4.4	1.2	1.45	
DF40C-30DS-0.4V(51)	CL684-4007-4-51	30	8.6	5.6	1.5	1.45	
DF40C-34DS-0.4V(51)	CL684-4023-0-51	34	9.4	6.4	2.3	1.45	
DF40C-40DS-0.4V(51)	CL684-4008-7-51	40	10.6	7.6	3.2	1.45	\circ
DF40C-50DS-0.4V(51)	CL684-4009-0-51	50	12.6	9.6	3.2	1.45	
DF40C-60DS-0.4V(51)	CL684-4004-6-51	60	14.6	11.6	3.2	1.45	
DF40C-70DS-0.4V(51)	CL684-4016-5-51	70	16.6	13.6	3.2	1.45	
DF40C-80DS-0.4V(51)	CL684-4002-0-51	80	18.6	15.6	3.2	1.45	
DF40C-90DS-0.4V(51)	CL684-4124-8-51	90	20.6	17.6	3.2	1.45	
DF40C-100DS-0.4V(51)	CL684-4033-4-51	100	22.6	19.6	3.2	1.45	

(Note 1) Please place orders by full reel quantities.

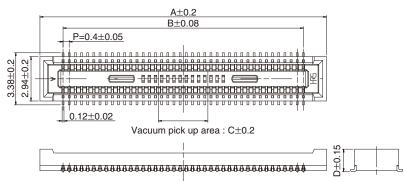
(Note 2) The surface of the 60-100 pos. parts have a small, concave section that will not affect the vacuum pick up operation.

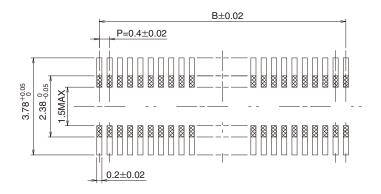
(Note 3) PCB layout prohibited area.

(Note 4) This connector is NOT polarized

■Receptacle (Stacking height 2.0 mm)







■Stacking height 2.0 mm

[Specification No.]

(51): Embossed package 4,000 pieces per reel

Unit: mm

							OTHE HITT
Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40C(2.0)-12DS-0.4V(51)	CL684-4148-6-51	12	5.0	2.0	1.0	1.95	
DF40C(2.0)-20DS-0.4V(51)	CL684-4040-0-51	20	6.6	3.6	1.0	1.95	
DF40C(2.0)-24DS-0.4V(51)	CL684-4021-2-51	24	7.4	4.4	1.2	1.95	
DF40C(2.0)-30DS-0.4V(51)	CL684-4058-5-51	30	8.6	5.6	1.5	1.95	
DF40C(2.0)-40DS-0.4V(51)	CL684-4042-5-51	40	10.6	7.6	3.2	1.95	
DF40C(2.0)-50DS-0.4V(51)	CL684-4091-0-51	50	12.6	9.6	3.2	1.95	
DF40C(2.0)-60DS-0.4V(51)	CL684-4034-7-51	60	14.6	11.6	3.2	1.95	
DF40C(2.0)-70DS-0.4V(51)	CL684-4147-3-51	70	16.6	13.6	3.2	1.95	
DF40C(2.0)-80DS-0.4V(51)	CL684-4132-6-51	80	18.6	15.6	3.2	1.95	

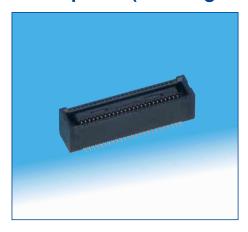
(Note 1) Please place orders by full reel

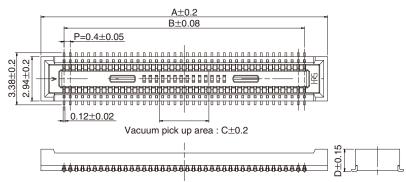
(Note 2) The surface of the 60-100 pos. parts have a small, concave section that will not affect the vacuum pick up operation.

(Note 3) PCB layout prohibited area.

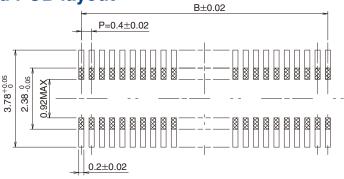
(Note 4)This connector is NOT polarized

■Receptacle (Stacking height 2.5 mm to 4.0 mm)





● Recommended PCB layout



■Stacking height 2.5 mm

[Specification No.]

(51): Embossed package 3,000 pieces per reel

Unit: mm

							O
Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40HC(2.5)-10DS-0.4V(51)	Under development	10	4.6	1.6	1.0	2.4	
DF40HC(2.5)-20DS-0.4V(51)	CL684-4126-3-51	20	6.6	3.6	1.0	2.4	
DF40HC(2.5)-40DS-0.4V(51)	CL684-4112-9-51	40	10.6	7.6	3.2	2.4	
DF40HC(2.5)-50DS-0.4V(51)	CL684-4101-2-51	50	12.6	9.6	3.2	2.4	
DF40HC(2.5)-60DS-0.4V(51)	CL684-4085-8-51	60	14.6	11.6	3.2	2.4	

■Stacking height 3.0 mm

(Specification No.)

(51): Embossed package 3,000 pieces per reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40HC(3.0)-30DS-0.4V(51)	CL684-4098-0-51	30	8.6	5.6	1.5	2.9	
DF40HC(3.0)-44DS-0.4V(51)	CL684-4076-7-51	44	11.4	8.4	3.2	2.9	
DF40HC(3.0)-50DS-0.4V(51)	CL684-4099-2-51	50	12.6	9.6	3.2	2.9	
DF40HC(3.0)-60DS-0.4V(51)	CL684-4100-0-51	60	14.6	11.6	3.2	2.9	
DF40HC(3.0)-70DS-0.4V(51)	CL684-4138-2-51	70	16.6	13.6	3.2	2.9	
DF40HC(3.0)-80DS-0.4V(51)	CL684-4180-9-51	80	18.6	15.6	3.2	2.9	
DF40HC(3.0)-90DS-0.4V(51)	CL684-4161-4-51	90	20.6	17.6	3.2	2.9	
DF40HC(3.0)-100DS-0.4V(51)	CL684-4151-0-51	100	22.6	19.6	3.2	2.9	

(Note 1) Please place orders by full reel

(Note 2) The surface of the 60-100 pos. parts have a small, concave section that will not affect the vacuum pick up operation

(Note 3) PCB layout prohibited area.

(Note 4) This connector is NOT polarized.

■Stacking height 3.5 mm

[Specification No.]

(51): Embossed package 2,000 pieces per reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40HC(3.5)-20DS-0.4V(51)	CL684-4188-0-51	20	6.6	3.6	1.0	3.4	
DF40HC(3.5)-30DS-0.4V(51)	CL684-4136-7-51	30	8.6	5.6	1.5	3.4	
DF40HC(3.5)-40DS-0.4V(51)	CL684-4209-9-51	40	10.6	7.6	3.2	3.4	
DF40HC(3.5)-50DS-0.4V(51)	CL684-4109-4-51	50	12.6	9.6	3.2	3.4	
DF40HC(3.5)-60DS-0.4V(51)	CL684-4102-5-51	60	14.6	11.6	3.2	3.4	
DF40HC(3.5)-80DS-0.4V(51)	CL684-4162-7-51	80	18.6	15.6	3.2	3.4	

■Stacking height 4.0 mm

[Specification No.]

(51): Embossed package 2,000 pieces per reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	RoHS
DF40HC(4.0)-40DS-0.4V(51)	Under development	40	10.6	7.6	3.2	3.9	
DF40HC(4.0)-50DS-0.4V(51)	Under development	50	12.6	9.6	3.2	3.9	
DF40HC(4.0)-60DS-0.4V(51)	CL684-4133-9-51	60	14.6	11.6	3.2	3.9	0
DF40HC(4.0)-80DS-0.4V(51)	CL684-4140-4-51	80	18.6	15.6	3.2	3.9	
DF40HC(4.0)-90DS-0.4V(51)	CL684-4165-5-51	90	20.6	17.6	3.2	3.9	

(Note 1) Please place orders by full reel

(Note 2) The surface of the 60-100 pos. parts have a small, concave section that will not affect the vacuum pick up operation

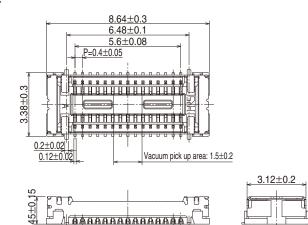
(Note 3) PCB layout prohibited area.

(Note 4) This connector is NOT polarized.

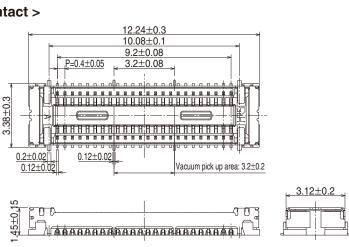
■Receptacle (Stacking height 1.5 mm, with shield)



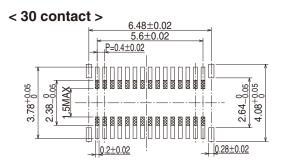
< 30 contact >

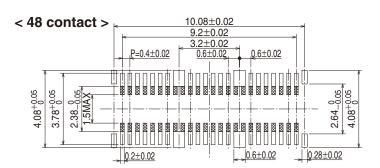


< 48 contact >



●Recommended PCB layout





■Stacking height 1.5mm

[Specification No.] (51): Embossed package 5,000 pieces per reel

Unit: mm

					• • • • • • • • • • • • • • • • • • • •
Part No.	HRS No.	No. of Contacts	Signal contact	Ground contact	RoHS
DF40GB(1.5)-30DS-0.4V(51)	CL684-4198-4-51	30	30	4	
DF40GB(1.5)-48DS-0.4V(51)	CL684-4194-3-51	48	40	12	

(Note 1) Please place orders by full reel

(Note 2) PCB layout prohibited area.

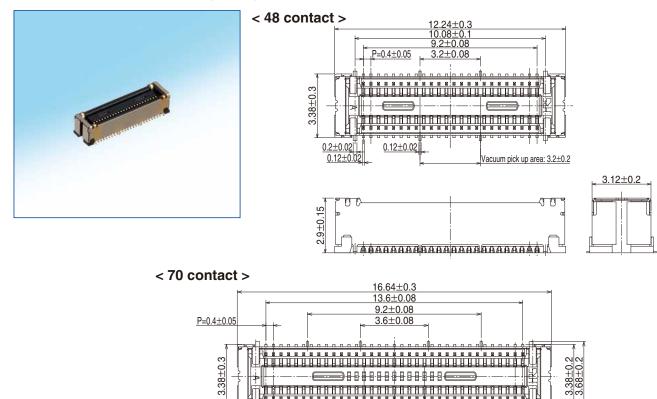
(Note 3) This connector is NOT polarized

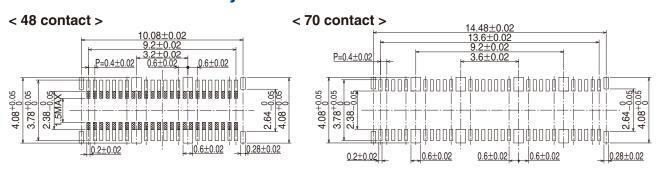
■Receptacle (Stacking height 3.0 mm, with shield)

0.2±0.02

 2.9 ± 0.15

0.12±0.02





■Stacking height 3.0mm

[Specification No.] (51): Embossed package 3,000 pieces per reel

Vacuum pick up area: 3.2±0.2

Unit: mm

3.12±0.2

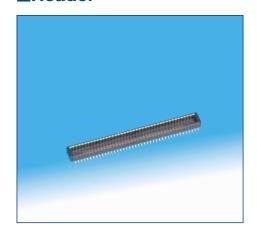
					O :
Part No.	HRS No.	No. of Contacts	Signal contact	Ground contact	RoHS
DF40GB(3.0)-48DS-0.4V(51)	CL684-4197-1-51	48	40	12	
DF40GB(3.0)-70DS-0.4V(51)	CL684-4196-9-51	70	54	20	

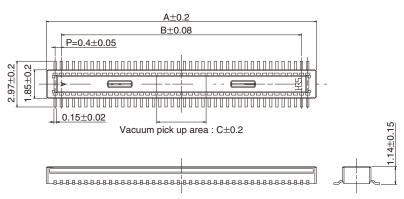
(Note 1) Please place orders by full reel

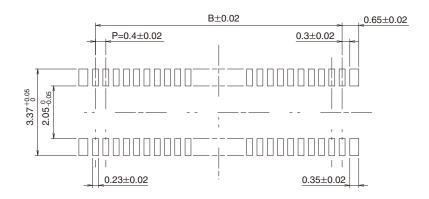
(Note 2) The surface of the 70 pos. part have a small, concave section that will not affect the vacuum pick up operation

(Note 3) This connector is NOT polarized.

■Header







Unit: mm

						OTHL. ITHII
Part No.	HRS No.	No. of Contacts	Α	В	С	RoHS
DF40C-10DP-0.4V(51)	CL684-4035-0-51	10	3.52	1.6	1.0	
DF40C-12DP-0.4V(51)	CL684-4149-9-51	12	3.92	2.0	1.0	
DF40C-20DP-0.4V(51)	CL684-4010-9-51	20	5.52	3.6	1.0	
DF40C-24DP-0.4V(51)	CL684-4011-1-51	24	6.32	4.4	1.2	
DF40C-30DP-0.4V(51)	CL684-4012-4-51	30	7.52	5.6	1.5	
DF40C-34DP-0.4V(51)	CL684-4024-3-51	34	8.32	6.4	2.3	
DF40C-40DP-0.4V(51)	CL684-4013-7-51	40	9.52	7.6	3.2	
DF40C-44DP-0.4V(51)	CL684-4077-0-51	44	10.32	8.4	3.2	
DF40C-50DP-0.4V(51)	CL684-4014-0-51	50	11.52	9.6	3.2	
DF40C-60DP-0.4V(51)	CL684-4003-3-51	60	13.52	11.6	3.2	
DF40C-70DP-0.4V(51)	CL684-4015-2-51	70	15.52	13.6	3.2	
DF40C-80DP-0.4V(51)	CL684-4001-8-51	80	17.52	15.6	3.2	
DF40C-90DP-0.4V(51)	CL684-4125-0-51	90	19.52	17.6	3.2	
DF40C-100DP-0.4V(51)	CL684-4032-1-51	100	21.52	19.6	3.2	

(Note 1) Please place orders by full reel

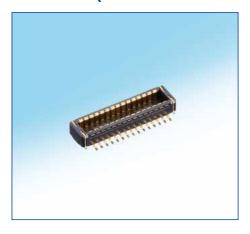
(Note 2) There are no concave parts on the header side contact part to increase the mating strength for 60 pos. or above.

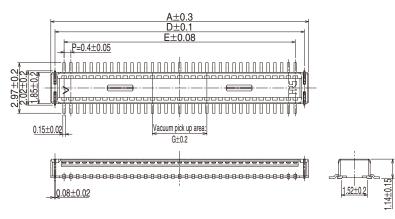
(Note 3) Use the contacts at the four corners as metal fittings. Do not use them as signal or power contacts.

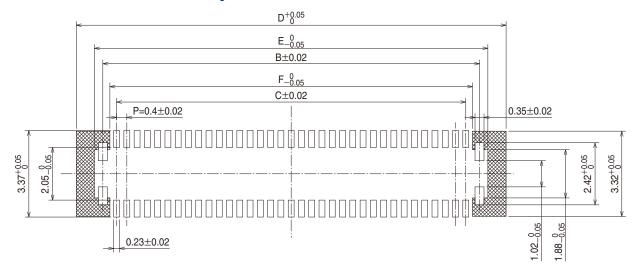
(Note 4) The surface of the 90 pos and higher parts have a small, concave section that will not affect the vacuum pick up operation

(Note 5) This connector is NOT polarized.

■Header (For use with shielded product)







Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	Е	F	G	RoHS
DF40GB-30DP-0.4V(51)	CL684-4200-4-51	10	7.16	6.67	5.6	8.74	7.32	6.12	1.5	
DF40GB-48DP-0.4V(51)	CL684-4195-6-51	12	10.76	10.27	9.2	12.34	10.92	9.72	3.2	
DF40GB-70DP-0.4V(51)	CL684-4199-7-51	20	15.16	14.67	13.6	16.74	15.32	14.12	3.2	

(Note 1) Please place orders by full reel

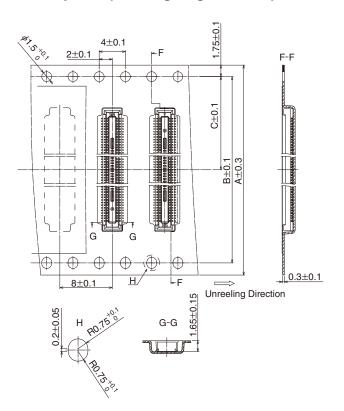
(Note 2) There are no concave parts of header side contact part to increase the mating strength for 60 pos. or above.

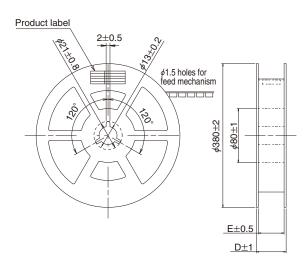
(Note 3) This connector is NOT polarized.

● Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

● Receptacle (Stacking height 1.5 mm)

●Reel Condition Dimensions





■Stacking height 1.5 mm

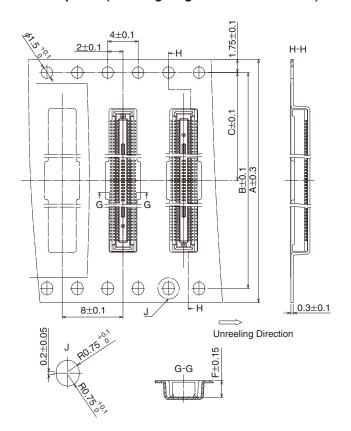
Unit: mm

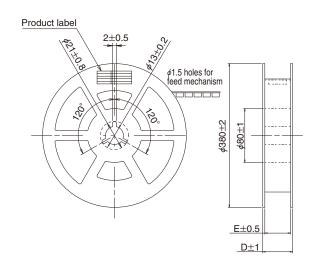
Part No.	А	В	С	D	Е
DF40C-10DS-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-12DS-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-20DS-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-24DS-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-30DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-34DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-40DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-50DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-60DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5
DF40C-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5
DF40C-90DS-0.4V(51)	44	40.4	20.2	49.5	45.5
DF40C-100DS-0.4V(51)	44	40.4	20.2	49.5	45.5
DF40GB(1.5)-30DS-0.4V(51)	24	_	11.5	29.5	25.5
DF40GB(1.5)-48DS-0.4V(51)	24	_	11.5	29.5	25.5

(Note 1) For 10-60 contact position parts, the carrier tape only has one row of holes. The carrier for parts with 70 contacts and above has two rows of holes.

● Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

● Receptacle (Stacking height 2.0 mm to 2.5 mm) ●Reel Dimensions





■Stacking height 2.0 mm

Unit: mm

				OTHE. ITHE		
Part No.	А	В	С	D	E	F
DF40C(2.0)-12DS-0.4V(51)	16	_	7.5	21.5	17.5	2.2
DF40C(2.0)-20DS-0.4V(51)	16	_	7.5	21.5	17.5	2.2
DF40C(2.0)-24DS-0.4V(51)	16	_	7.5	21.5	17.5	2.2
DF40C(2.0)-30DS-0.4V(51)	24	_	11.5	29.5	25.5	2.2
DF40C(2.0)-40DS-0.4V(51)	24	_	11.5	29.5	25.5	2.2
DF40C(2.0)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	2.2
DF40C(2.0)-60DS-0.4V(51)	24	_	11.5	29.5	25.5	2.2
DF40C(2.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	2.2
DF40C(2.0)-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5	2.2

■Stacking height 2.5 mm

Unit: mm

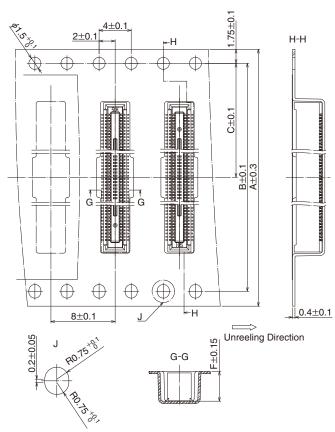
Part No.	А	В	С	D	E	F
DF40HC(2.5)-10DS-0.4V(51)	16	_	7.5	21.5	17.5	2.72
DF40HC(2.5)-20DS-0.4V(51)	16	_	7.5	21.5	17.5	2.72
DF40HC(2.5)-40DS-0.4V(51)	24	_	11.5	29.5	25.5	2.72
DF40HC(2.5)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	2.72
DF40HC(2.5)-60DS-0.4V(51)	24	_	11.5	29.5	25.5	2.72

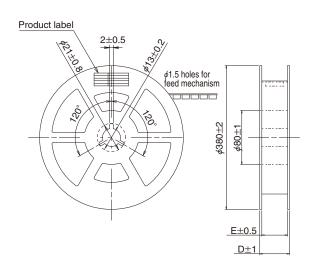
(Note 1) For 10-60 contact position parts, the carrier tape only has one row of holes. The carrier for parts with 70 contacts and above has two rows of holes.

● Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

● Receptacle (Stacking height 3.0 mm to 4.0 mm)

●Reel Condition Dimensions





■Stacking height 3.0 mm

Unit: mm

Part No.	Α	В	С	D	Е	F
DF40HC(3.0)-30DS-0.4V(51)	24	_	11.5	29.5	25.5	3.15
DF40HC(3.0)-44DS-0.4V(51)	24		11.5	29.5	25.5	3.15
DF40HC(3.0)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	3.15
DF40HC(3.0)-60DS-0.4V(51)	24	_	11.5	29.5	25.5	3.15
DF40HC(3.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	3.15
DF40HC(3.0)-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5	3.15
DF40HC(3.0)-90DS-0.4V(51)	44	40.4	20.2	49.5	45.5	3.15
DF40HC(3.0)-100DS-0.4V(51)	44	40.4	20.2	49.5	45.5	3.15
DF40GB(3.0)-48DS-0.4V(51)	24	_	11.5	29.5	25.5	3.15
DF40GB(3.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	3.15

■Stacking height 3.5 mm

Unit: mm

Part No.	Α	В	С	D	Е	F
DF40HC(3.5)-20DS-0.4V(51)	16	_	7.5	21.5	17.5	3.72
DF40HC(3.5)-30DS-0.4V(51)	24	_	11.5	29.5	25.5	3.72
DF40HC(3.5)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	3.72
DF40HC(3.5)-60DS-0.4V(51)	24	_	11.5	29.5	25.5	3.72

■Stacking height 4.0 mm

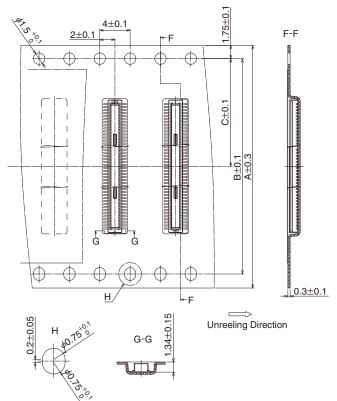
Unit: mm

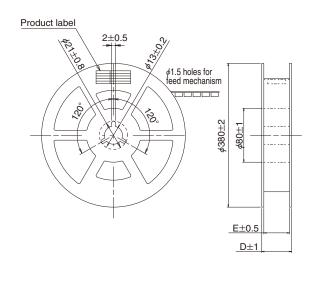
Part No.	А	В	С	D	Е	F
DF40HC(4.0)-40DS-0.4V(51)	24	_	11.5	29.5	25.5	4.15
DF40HC(4.0)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	4.15
DF40HC(4.0)-60DS-0.4V(51)	24	_	11.5	29.5	25.5	4.15
DF40HC(4.0)-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5	4.15
DF40HC(4.0)-90DS-0.4V(51)	44	40.4	20.2	49.5	45.5	4.15

(Note 1) For 10-60 contact position parts, the carrier tape only has one row of holes. The carrier for parts with 70 contacts and above has two rows of holes.

●Header

●Reel Dimensions



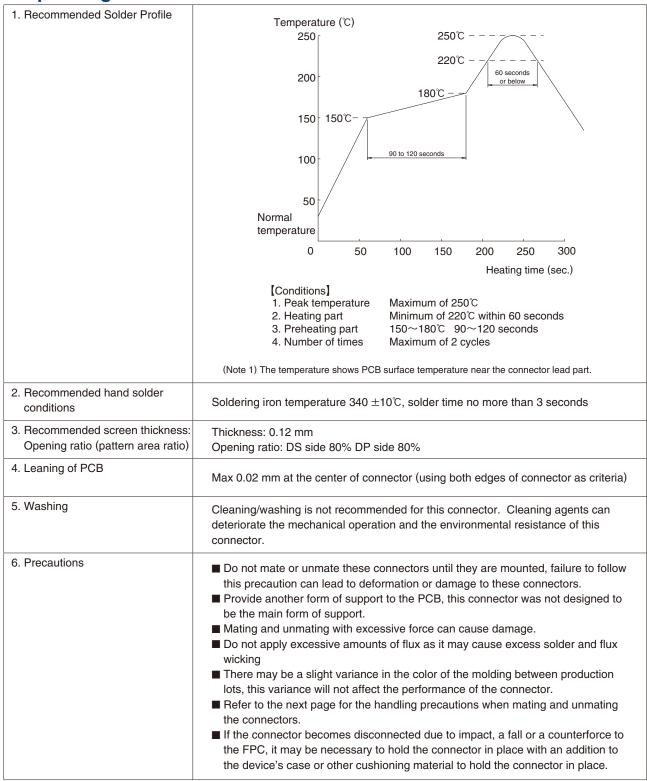


Unit: mm

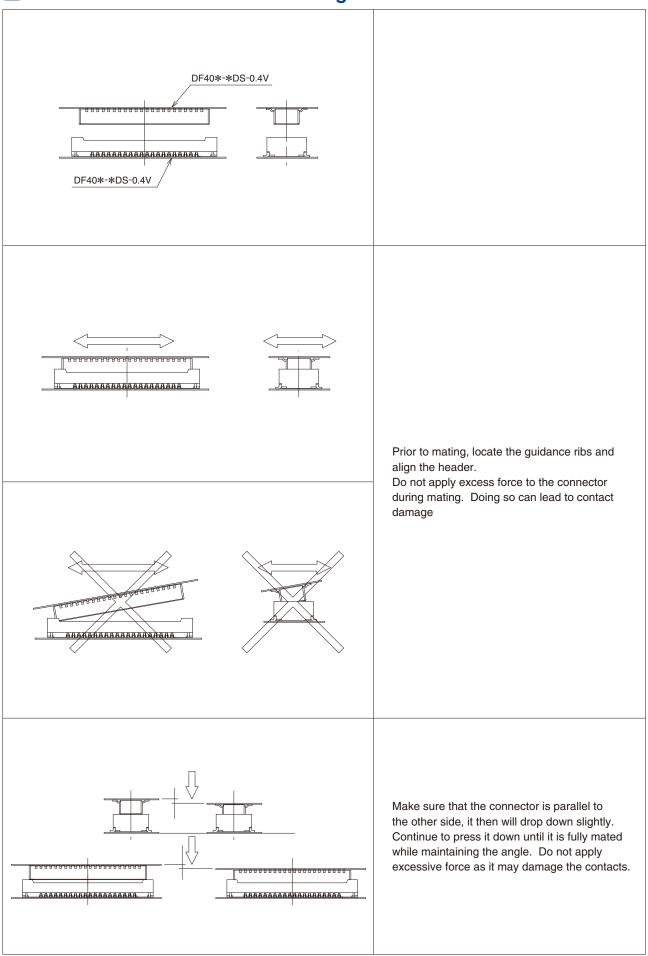
Part No.	А	В	С	D	Е
DF40C-10DP-0.4V(51)	12	_	5.5	17.5	13.5
DF40C-12DP-0.4V(51)	12	_	5.5	17.5	13.5
DF40C-20DP-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-24DP-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-30DP-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-34DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-40DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-44DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-50DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-60DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-70DP-0.4V(51)	32	28.4	14.2	37.5	33.5
DF40C-80DP-0.4V(51)	32	28.4	14.2	37.5	33.5
DF40C-90DP-0.4V(51)	44	40.4	20.2	49.5	45.5
DF40C-100DP-0.4V(51)	44	40.4	20.2	49.5	45.5
DF40GB-30DP-0.4V(51)	16	_	7.5	21.5	17.5
DF40GB-48DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40GB-70DP-0.4V(51)	24	_	11.5	29.5	25.5

(Note 1) For 10-60 contact position parts, the carrier tape only has one row of holes. The carrier for parts with 70 contacts and above has two rows of holes.

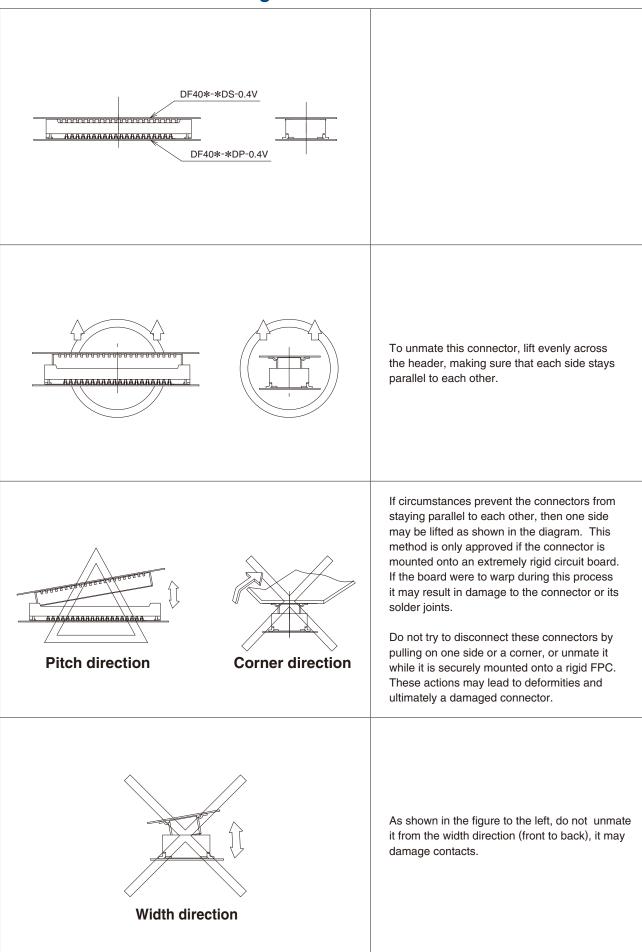
Operating Precautions



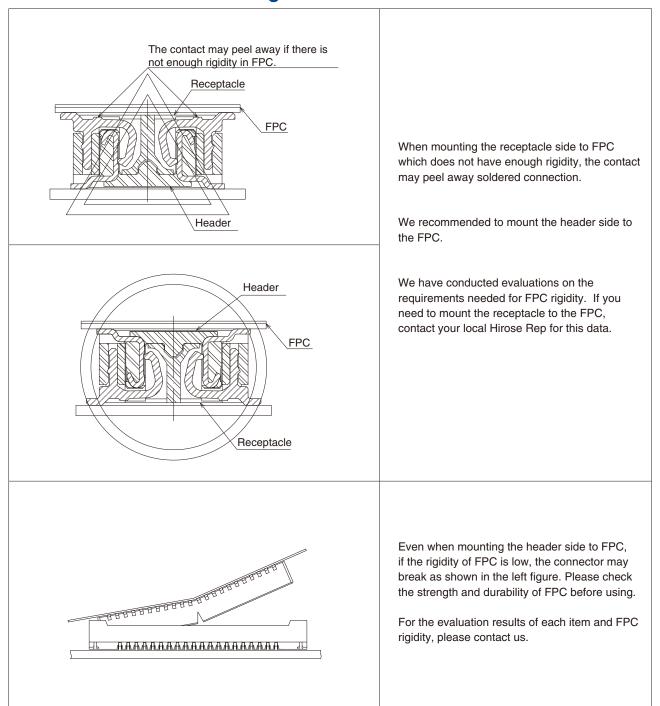
Precautions when connector mating



Precautions when unmating a connector



Precautions when unmating a connector



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