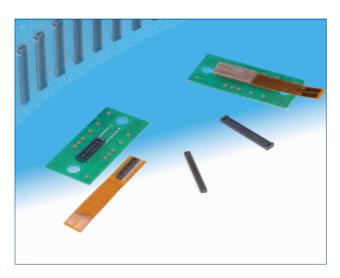
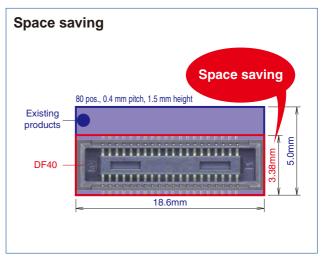
0.4mm Pitch, 1.5 to 4.0mm Height, Board-to-Board and Board-to-FPC Connectors

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: 3.38mm

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: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, and 4.0mm.

3. High contact reliability

Despite its small stature and low profile, the contacts deliver strong contact forces and an effective mating length of 0.45mm on the 1.5mm 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 0.33mm 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 0.45mm Shock absorption ribs Lock system (10 pos. to 50 pos.)

Stacking height variations

Standard type 15 20 25 30 35 40 Stacking

	Siac	Kirig	1.5	2.0	2.5	3.0	3.5	4.0
	hei	ght	mm	mm	mm	mm	mm	mm
Ī		10	0	-	0	-	-	-
		12	0	0	_	_	-	-
		20	0	0	0	-	0	-
		24	0	0	_	-	-	_
	S	30	0	0	0	0	0	-
	tac	34	0	-	-	-	-	-
	Ö	40	0	0	0	0	0	-
	Ç	44	_	0	_	0	-	-
	No. of Contacts	50	0	0	0	0	0	0
	Ž	60	0	0	0	0	0	0
		70	0	0	_	0	_	_
		80	0	0	_	0	0	0
		90	0	_	_	0	_	0
		100	0	_	_	0	_	_

Shielded type

oo.aoa typo						
Stacking height		1.5 mm	3.0 mm			
of icts	30	0	-			
No. of ontacts	48	0	0			
~ 8	70	_	0			

■Product Specifications

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

Items	Specifications	Conditions		
1. Insulation Resistance	50MΩ min	Measured with DC 100V		
2. Withstanding Voltage	No flashover or breakdown	Apply AC 100V for 1 minute		
3. Contact Resistance	90mΩ max	Measured with AC 20mV, 1 kHz and 1mA		
4. Vibration Resistance	No electrical discontinuity of 1μ s or greater	Frequency 10-55 Hz, half amplitude 0.75mm, 3 directions for 2 hours		
5. Humidity Resistance	Contact resistance : $90m\Omega$ max Insulation resistance : $25m\Omega$ min	Left at temperature $40 \pm 2^{\circ}\text{C}$, humidity 90 to 95%, 96 hours		
6. Temperature Cycles	Contact resistance : $90m\Omega$ max Insulation resistance : $50m\Omega$ min	(-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 : 90mΩ max	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) / Finish

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

■Materials (Shielded type) / Finish

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

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

Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

Receptacle

DF40	#	_	(**)	_	*	DS	_	0.4	V	(**)
0	2		3		4	6		6	7	8

- 1 Series Name: DF40
- 2 Style
 - B: With reinforcing metal fitting
 - HB: With reinforcing metal fitting (The H denotes a stacking height 2.5mm or above)
 - C: Without reinforcing metal fitting
- HC: Without reinforcing metal fitting (The H denotes a stacking height 2.5mm or above)
- Stacking height

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
- Packaging Type (51) Embossed tape packaging

Header

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

1 Series Name: DF40 3 No. of Contacts 6 Contact Pitch: 0.4mm 6 Mating direction V: Vertical SMT 4 Connector Type 2 Style C: Without reinforcing metal fitting DP: Double row pin header Packaging Type (51) Embossed tape packaging

■Shielded type

Receptacle

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

1 Series Name: DF40 3 Stacking height 6 Connector Type DS: Double row receptacle 2 Style Display Stacking height GB: With shield 1.5 1.5mm 6 Contact Pitch: 0.4mm 3.0 3.0mm Mating direction V: Vertical SMT 4 No. of Contacts 8 Packaging Type (51) Embossed tape packaging

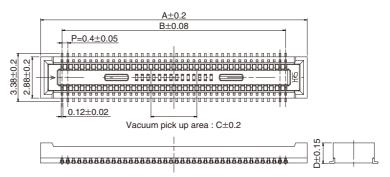
Header

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

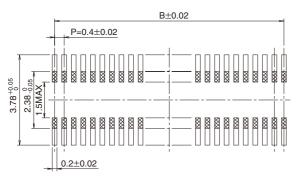
1 Series Name : DF40	3 No. of Contacts	5 Contact Pitch : 0.4mm		
2 Style	Connector Type	6 Mating direction V : Vertical SMT		
GB: With reinforcing metal fitting (For use with shielded product)	DP : Double row pin header	Packaging Type (51) Embossed tape packaging		

■Receptacle (Stacking height 1.5mm)

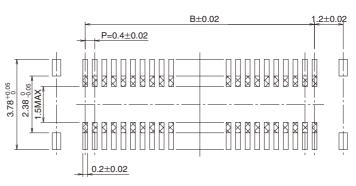




● Recommended PCB layout







DF40B(With reinforcing metal fitting)

■Stacking height 1.5mm

[Specification No.]

(51): Embossed package 5,000 pcs/reel

Unit: mm

						O1110 . 1111111
Part No.	HRS No.	No. of Contacts	Α	В	С	D
DF40B-10DS-0.4V(51)	684-4038-8 51	10	4.6	1.6	1.0	
DF40B-12DS-0.4V(51)	684-4152-3 51	12	5.0	2.0	1.0	
DF40B-30DS-0.4V(51)	684-4090-8 51	30	8.6	5.6	1.5	
DF40B-50DS-0.4V(51)	684-4018-0 51	50	12.6	9.6		
DF40B-60DS-0.4V(51)	684-4049-4 51	60	14.6	11.6	3.2	
DF40B-80DS-0.4V(51)	684-4052-9 51	80	18.6	15.6		
DF40C-20DS-0.4V(51)	684-4005-9 51	20	6.6	3.6	1.0	
DF40C-24DS-0.4V(51)	684-4006-1 51	24	7.4	4.4	1.2	
DF40C-30DS-0.4V(51)	684-4007-4 51	30	8.6	5.6	1.5	1.45
DF40C-34DS-0.4V(51)	684-4023-0 51	34	9.4	6.4	2.3	
DF40C-40DS-0.4V(51)	684-4008-7 51	40	10.6	7.6		
DF40C-50DS-0.4V(51)	684-4009-0 51	50	12.6	9.6		
DF40C-60DS-0.4V(51)	684-4004-6 51	60	14.6	11.6		
DF40C-70DS-0.4V(51)	684-4016-5 51	70	16.6	13.6	3.2	
DF40C-80DS-0.4V(51)	684-4002-0 51	80	18.6	15.6		
DF40C-90DS-0.4V(51)	684-4124-8 51	90	20.6	17.6		
DF40C-100DS-0.4V(51)	684-4033-4 51	100	22.6	19.6	1	

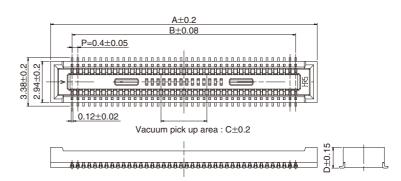
Note 1: Please place orders by full reel.

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

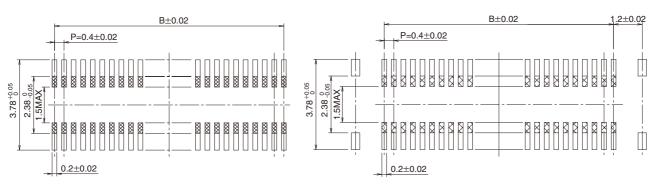
Note 3: Resist coating area.

■Receptacle (Stacking height 2.0mm)





● Recommended PCB layout



DF40C(Without reinforcing metal fitting)

DF40B(With reinforcing metal fitting)

■Stacking height 2.0mm

[Specification No.]

(51): Embossed package 4,000 pcs/reel

Unit: mm

Part No.	HRS No.	No. of Contacts	А	В	С	D
DF40B(2.0)-12DS-0.4V(51)	684-4150-8 51	12	5.0	2.0	1.0	
DF40B(2.0)-80DS-0.4V(51)	684-4128-9 51	80	18.6	15.6	3.2	
DF40C(2.0)-20DS-0.4V(51)	684-4040-0 51	20	6.6	3.6	1.0	
DF40C(2.0)-24DS-0.4V(51)	684-4021-2 51	24	7.4	4.4	1.2	
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		1.95
DF40C(2.0)-50DS-0.4V(51)	684-4091-0 51	50	12.6	9.6		
DF40C(2.0)-60DS-0.4V(51)	684-4034-7 51	60	14.6	11.6	3.2	
DF40C(2.0)-70DS-0.4V(51)	684-4147-3 51	70	16.6	13.6		
DF40C(2.0)-80DS-0.4V(51)	684-4132-6 51	80	18.6	15.6		

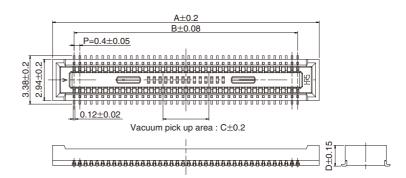
Note 1: Please place orders by full reel.

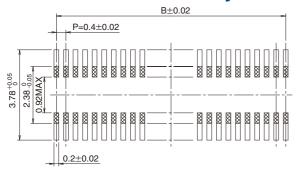
Note 2: The surface of the 60 to 100 pos. parts have a small, concave section that will not affect the vacuum pick up operation.

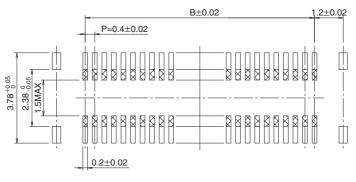
Note 3: Resist coating area.

■Receptacle (Stacking height 2.5mm to 4.0mm)









DF40HC(Without reinforcing metal fitting)

■Stacking height 2.5mm

DF40HB(With reinforcing metal fitting)

[Specification No.]
(51): Embossed package 3,000 pcs/reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
DF40HB(2.5)-10DS-0.4V(51)	684-4189-3 51	10	4.6	1.6	1.0	
DF40HC(2.5)-20DS-0.4V(51)	684-4126-3 51	20	6.6	3.6	1.0	
DF40HC(2.5)-40DS-0.4V(51)	684-4112-9 51	40	10.6	7.6		2.4
DF40HC(2.5)-50DS-0.4V(51)	684-4101-2 51	50	12.6	9.6	3.2	
DF40HC(2.5)-60DS-0.4V(51)	684-4085-8 51	60	14.6	11.6		

■Stacking height 3.0mm

[Specification No.]

(51): Embossed package 3,000 pcs/reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
DF40HC(3.0)-30DS-0.4V(51)	684-4098-0 51	30	8.6	5.6	1.5	
DF40HC(3.0)-40DS-0.4V(51)	684-4169-6 51	40	10.6	7.6		
DF40HC(3.0)-44DS-0.4V(51)	684-4076-7 51	44	11.4	8.4		
DF40HC(3.0)-50DS-0.4V(51)	684-4099-2 51	50	12.6	9.6		
DF40HC(3.0)-60DS-0.4V(51)	684-4100-0 51	60	14.6	11.6	0.0	2.9
DF40HC(3.0)-70DS-0.4V(51)	684-4138-2 51	70	16.6	13.6	3.2	
DF40HC(3.0)-80DS-0.4V(51)	684-4180-9 51	80	18.6	15.6		
DF40HC(3.0)-90DS-0.4V(51)	684-4161-4 51	90	20.6	17.6		
DF40HC(3.0)-100DS-0.4V(51)	684-4151-0 51	100	22.6	19.6		

Note 1: Please place orders by full reel.

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

Note 3: Resist coating area.

■Stacking height 3.5mm

[Specification No.]

(51): Embossed package 2,000 pcs/reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
DF40HC(3.5)-20DS-0.4V(51)	684-4188-0 51	20	6.6	3.6	1.0	
DF40HC(3.5)-30DS-0.4V(51)	684-4136-7 51	30	8.6	5.6	1.5	
DF40HC(3.5)-40DS-0.4V(51)	684-4209-9 51	40	10.6	7.6		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	
DF40HC(3.5)-80DS-0.4V(51)	684-4162-7 51	80	18.6	15.6		

■Stacking height 4.0mm

[Specification No.]

(51): Embossed package 2,000 pcs/reel

Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D
DF40HB(4.0)-50DS-0.4V(51)	684-4104-0 51	50	12.6	0.6		
DF40HC(4.0)-50DS-0.4V(51)	684-4215-1 51	50	12.6	9.6		
DF40HC(4.0)-60DS-0.4V(51)	684-4133-9 51	60	14.6	11.6	3.2	3.9
DF40HC(4.0)-80DS-0.4V(51)	684-4140-4 51	80	18.6	15.6		
DF40HC(4.0)-90DS-0.4V(51)	684-4165-5 51	90	20.6	17.6		

Note 1 : Please place orders by full reel.

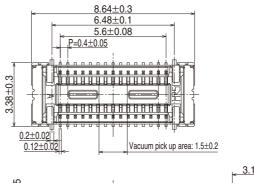
Note 2: The surface of the 60 to 100 pos. parts have a small, concave section that will not affect the vacuum pick up operation.

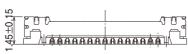
Note 3: Resist coating area.

■Receptacle (Stacking height 1.5mm, with shield)



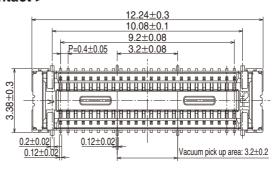
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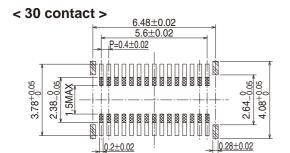
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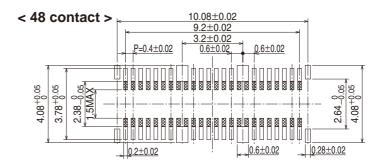






●Recommended PCB layout





■Stacking height 1.5mm

[Specification No.]

(51): Embossed package 5,000 pcs/reel

Unit: mm

				O 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Part No.	HRS No.	No. of Contacts	Signal contact	Ground contact
DF40GB(1.5)-30DS-0.4V(51)	684-4198-4 51	30	30	4
DF40GB(1.5)-48DS-0.4V(51)	684-4194-3 51	48	40	12

Note 1 : Please place orders by full reel.

Note 2: Resist coating area.

Vacuum pick up area: 3.2±0.2

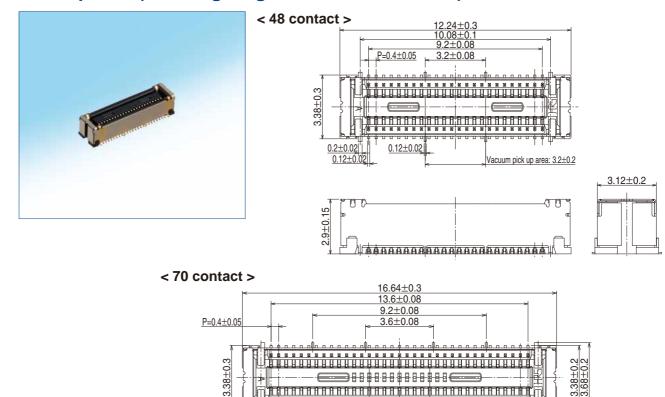
470

■Receptacle (Stacking height 3.0mm, with shield)

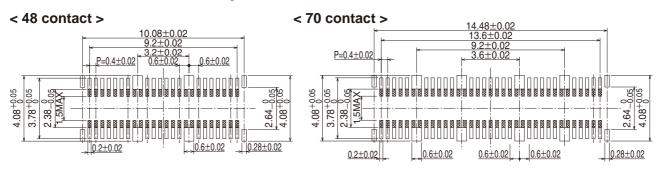
0.2±0.02

2.9±0.15

0.12±0.02



Recommended PCB layout



■Stacking height 3.0mm

[Specification No.] (51): Embossed package 3,000 pcs/reel

Unit: mm

3.12±0.2

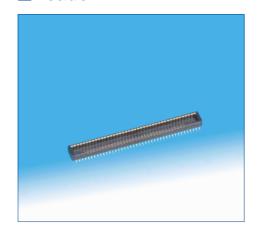
					O 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Part No.	HRS No.	No. of Contacts	Signal contact	Ground contact
	DF40GB(3.0)-48DS-0.4V(51)	684-4197-1 51	48	40	12
DF40GB(3.0)-70DS-0.4V(51)		684-4196-9 51	70	54	20

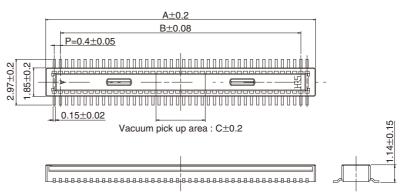
Note 1: Please place orders by full reel.

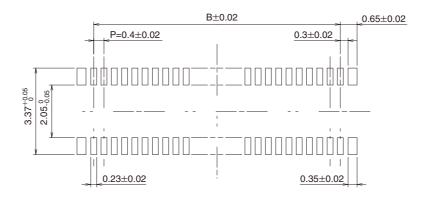
Note 2: The surface of the 70 pos. part have a small, concave section that will not affect the vacuum pick up operation.

Note 3: Resist coating area.

■Header







Unit: mm

					OTHE . ITHII
Part No.	HRS No.	No. of Contacts	Α	В	С
DF40C-10DP-0.4V(51)	684-4035-0 51	10	3.52	1.6	
DF40C-12DP-0.4V(51)	684-4149-9 51	12	3.92	2.0	1.0
DF40C-20DP-0.4V(51)	684-4010-9 51	20	5.52	3.6	
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-34DP-0.4V(51)	684-4024-3 51	34	8.32	6.4	2.3
DF40C-40DP-0.4V(51)	684-4013-7 51	40	9.52	7.6	
DF40C-44DP-0.4V(51)	684-4077-0 51	44	10.32	8.4	
DF40C-50DP-0.4V(51)	684-4014-0 51	50	11.52	9.6	
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	
DF40C-90DP-0.4V(51)	684-4125-0 51	90	19.52	17.6	
DF40C-100DP-0.4V(51)	684-4032-1 51	100	21.52	19.6	

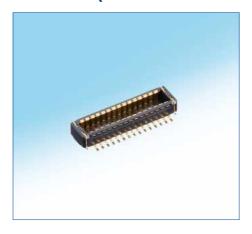
Note 1: Please place orders by full reel.

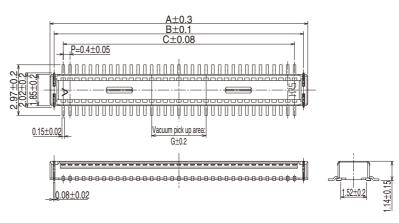
Note 2: There are no concave parts on the header side contact part to increase the mating strength for 60 pos. or above.

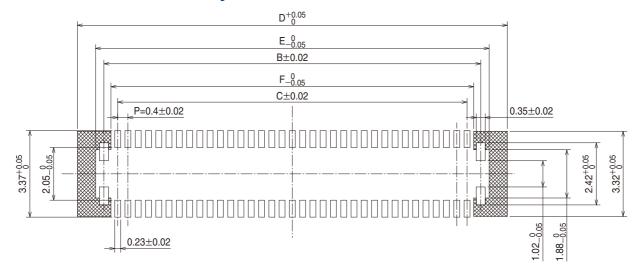
Note 3: Use the contacts at the four corners as metal fittings. Do not use them as signal or power contacts.

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.

■Header (For use with shielded product)







Unit: mm

Part No.	HRS No.	No. of Contacts	Α	В	С	D	Е	F	G
DF40GB-30DP-0.4V(51)	684-4200-4 51	30	7.16	6.67	5.6	8.74	7.32	6.12	1.5
DF40GB-48DP-0.4V(51)	684-4195-6 51	48	10.76	10.27	9.2	12.34	10.92	9.72	3.2
DF40GB-70DP-0.4V(51)	684-4199-7 51	70	15.16	14.67	13.6	16.74	15.32	14.12	3.2

Note 1 : Please place orders by full reel.

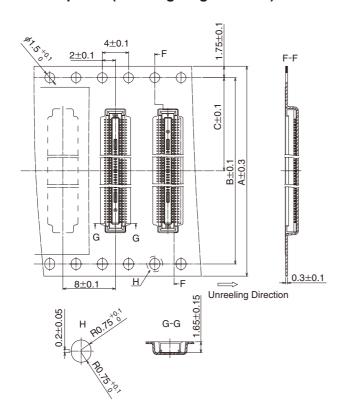
Note 2: There are no concave parts of header side contact part to increase the mating strength for 60 pos. or above.

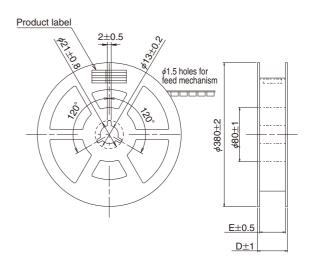
Note 3: Resist coating area.

● Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

● Receptacle (Stacking height 1.5mm)

●Reel Condition Dimensions





■Stacking height 1.5mm

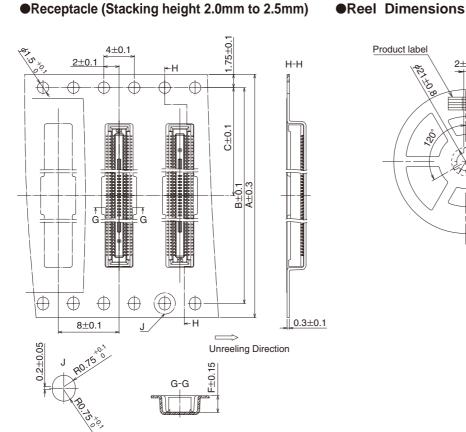
Unit: mm

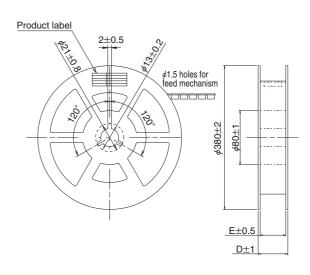
Part No.	А	В	С	D	Е
DF40#-10DS-0.4V(51)		_			
DF40#-12DS-0.4V(51)	16	_	7.5	21.5	17.5
DF40#-20DS-0.4V(51)	10	_	- 7.5		17.5
DF40#-24DS-0.4V(51)		_			
DF40#-30DS-0.4V(51)		_			25.5
DF40#-34DS-0.4V(51)	24	_	11.5	29.5	
DF40#-40DS-0.4V(51)		_			
DF40#-50DS-0.4V(51)		_			
DF40#-60DS-0.4V(51)		_			
DF40#-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5
DF40#-80DS-0.4V(51)	32	20.4	14.2	37.5	33.5
DF40#-90DS-0.4V(51)	44	40.4	20.2	49.5	45.5
DF40#-100DS-0.4V(51)	44	40.4	20.2	49.5	40.5
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	20.5

Note 1: For 10 to 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 2.0mm to 2.5mm)





■Stacking height 2.0mm

Unit: mm

						OTHL . ITHII
Part No.	А	В	С	D	Е	F
DF40#(2.0)-12DS-0.4V(51)		_				
DF40#(2.0)-20DS-0.4V(51)	16	_	7.5	21.5	17.5	
DF40#(2.0)-24DS-0.4V(51)		_				
DF40#(2.0)-30DS-0.4V(51)		_		29.5	25.5	
DF40#(2.0)-40DS-0.4V(51)	24	_				2.2
DF40#(2.0)-50DS-0.4V(51)	24	_	11.5	29.5		
DF40#(2.0)-60DS-0.4V(51)		_				
DF40#(2.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	
DF40#(2.0)-80DS-0.4V(51)	32	20.4	14.2	37.5	33.5	

■Stacking height 2.5mm

Unit: mm

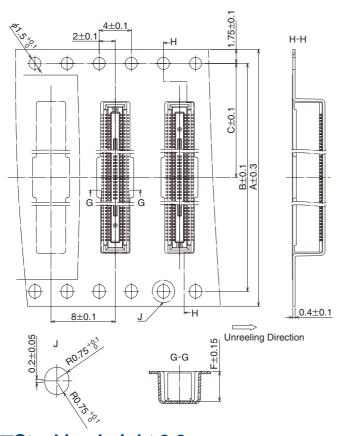
Part No.	Α	В	С	D	E	F
DF40H#(2.5)-10DS-0.4V(51)	16	_		21.5	17.5	
DF40H#(2.5)-20DS-0.4V(51)	10	7.5	7.5			
DF40H#(2.5)-40DS-0.4V(51)		_				2.72
DF40H#(2.5)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	
DF40H#(2.5)-60DS-0.4V(51)		_				

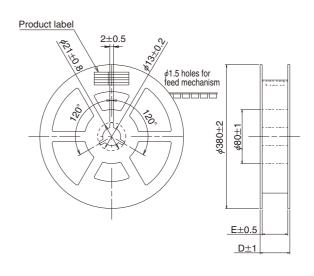
Note 1: For 10 to 60 contact position parts, the carrier tape only has one row of holes. The carrier for parts with 70 contacts and above has two rows of holes.

● Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

● Receptacle (Stacking height 3.0mm to 4.0mm)

Reel Condition Dimensions





■Stacking height 3.0mm

Unit: mm

Part No.	Α	В	С	D	Е	F
DF40H#(3.0)-30DS-0.4V(51)		_				
DF40H#(3.0)-40DS-0.4V(51)		_		29.5	25.5	
DF40H#(3.0)-44DS-0.4V(51)	24	_	11.5			
DF40H#(3.0)-50DS-0.4V(51)		_				
DF40H#(3.0)-60DS-0.4V(51)		_				
DF40H#(3.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	3.15
DF40H#(3.0)-80DS-0.4V(51)	32	28.4	14.2	37.5		
DF40H#(3.0)-90DS-0.4V(51)	44	40.4	20.2	49.5	4F F	
DF40H#(3.0)-100DS-0.4V(51)	44	40.4	20.2	49.5	45.5	
DF40GB(3.0)-48DS-0.4V(51)	24	_	11.5	29.5	25.5	
DF40GB(3.0)-70DS-0.4V(51)	32	28.4	14.2	37.5	33.5	

■Stacking height 3.5mm

Unit: mm

Part No.	А	В	С	D	Е	F
DF40H#(3.5)-20DS-0.4V(51)	16	_	7.5	21.5	17.5	
DF40H#(3.5)-30DS-0.4V(51)		_		29.5	25.5	
DF40H#(3.0)-40DS-0.4V(51)	04	_	11.5			3.72
DF40H#(3.5)-50DS-0.4V(51)	24	_				
DF40H#(3.5)-60DS-0.4V(51)		_				

■Stacking height 4.0mm

Unit: mm

Part No.	Α	В	С	D	Е	F
DF40H#(4.0)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	4.15
DF40H#(4.0)-60DS-0.4V(51)	24	_				
DF40H#(4.0)-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5	4.15
DF40H#(4.0)-90DS-0.4V(51)	44	40.4	20.2	49.5	45.5	

Note 1: For 10 to 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.

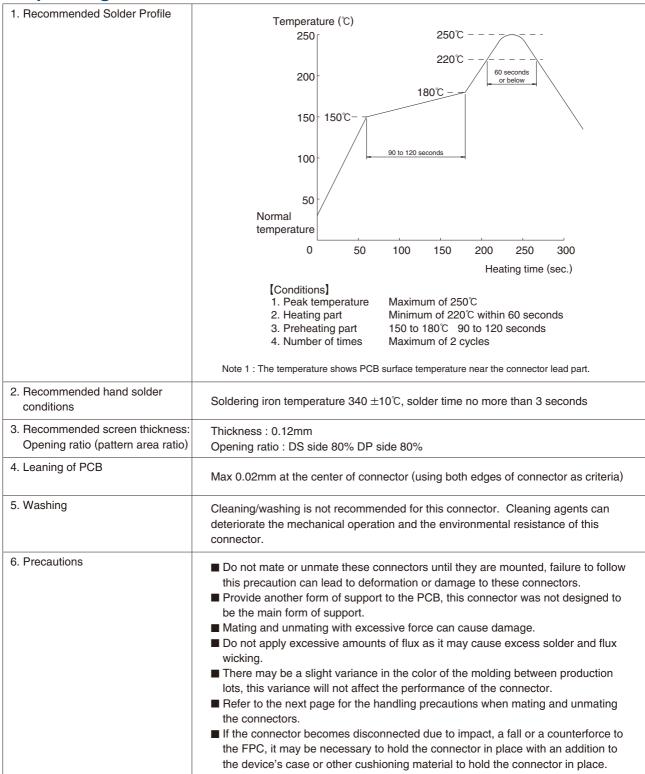
●Reel Dimensions Header 1.75±0.1 Product label F-F 2±0.1 φ1.5 holes for feed mechanism C±0.1 *φ*380±2 B±0.1 A±0.3 E±0.5 D±1 0.3±0.1 **Unreeling Direction**

Unit: mm

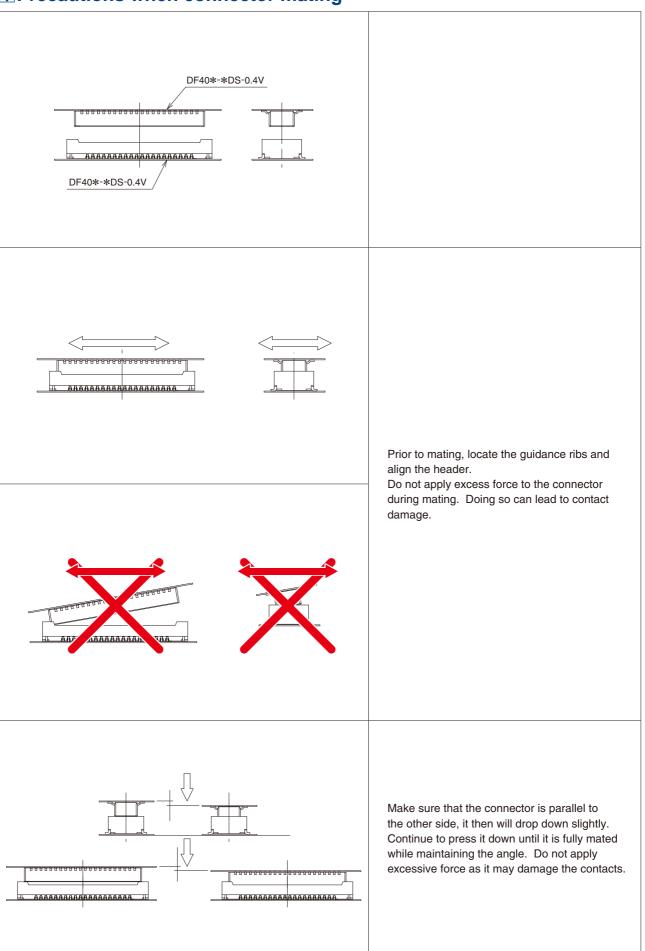
Part No.	А	В	С	D	Е
DF40C-10DP-0.4V(51)	12	_	5.5	17.5	13.5
DF40C-12DP-0.4V(51)	12	_			
DF40C-20DP-0.4V(51)	16	_	7.5	21.5	17.5
DF40C-24DP-0.4V(51)		_			
DF40C-30DP-0.4V(51)		_			
DF40C-34DP-0.4V(51)	24	_	11.5	29.5	25.5
DF40C-40DP-0.4V(51)		_			
DF40C-44DP-0.4V(51)		_			
DF40C-50DP-0.4V(51)		_			
DF40C-60DP-0.4V(51)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

Note 1: For 10 to 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.

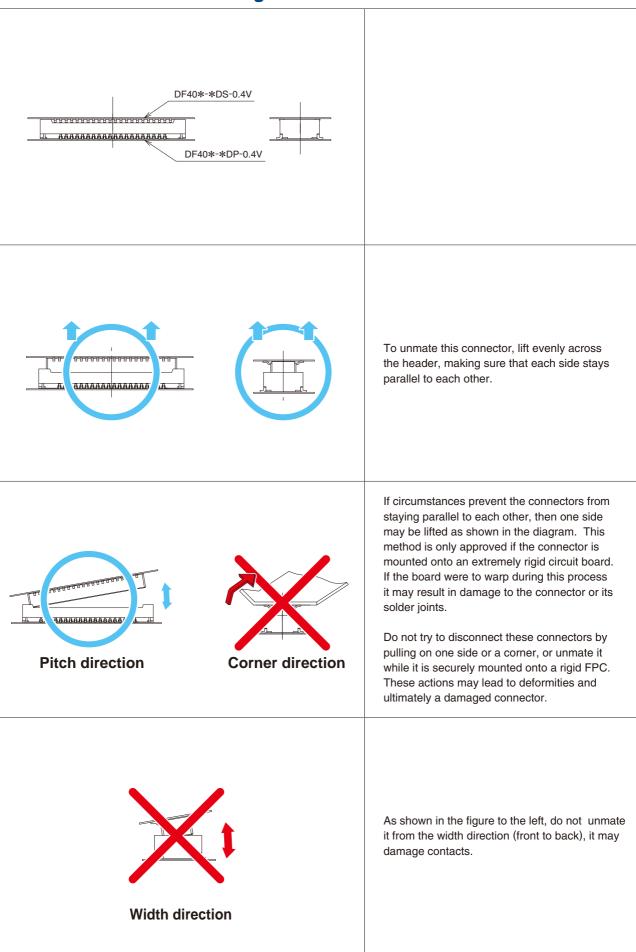
Operating Precautions



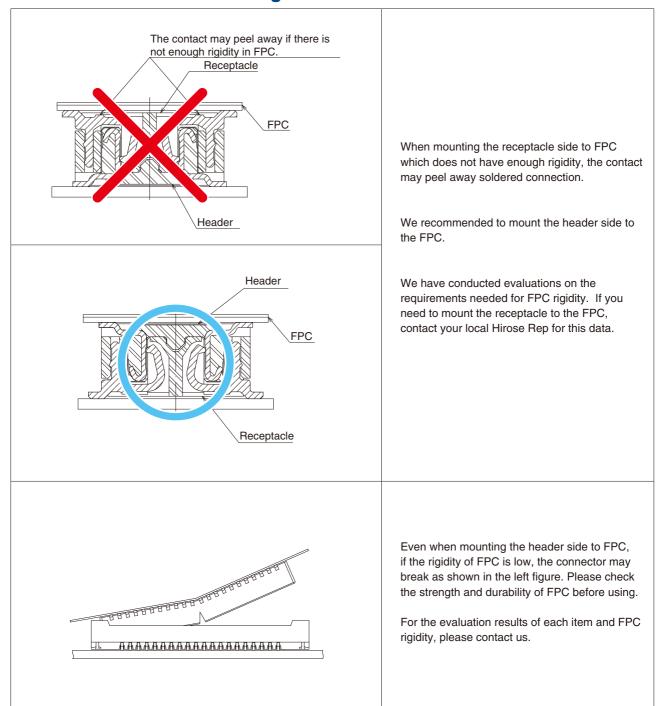
Precautions when connector mating



Precautions when unmating a connector



● Precautions when unmating a connector



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