

DF40 Series

0.4mm Pitch, **1.5** to **4.0mm** Height, Board-to-Board/FPC-to-Board Connector

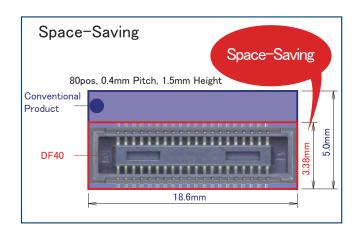




Features

1. High Density Mounting

This is a space-saving design that minimizes connector depth while ensuring an vacuum pick & place area that does not affect mountability. The smallest depth in it's class: 3.38mm



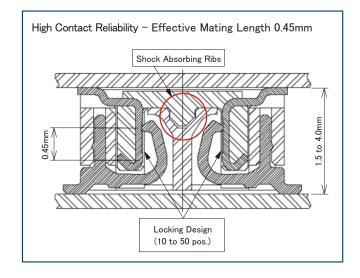
2. Wide Stacking Height **Variations**

A wide variety of height variations, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm with the space-saving design.

3. High Contact Reliability

0.45mm of world's largest effective mating length for 1.5mm mated height.

It has a good click feeling which is effective for preventing incomplete mating, and lock design is installed for small No. of pos. with weak mating force to prevent disconnection.

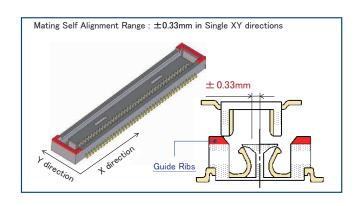


4. Robust Design with Shock Absorbing Ribs

Ribs provided on both connectors fit in when mated to absorb stress at impact.

5. Wide Self Alignment Range

Guide ribs utilizing dead space ensure 0.33mm in single X and Y directions.



6. Supports USB4 Gen. 2 (20Gbps) transmission

Only H=1.5mm type is compatible with Type-C signal transmission.

7. Solder Wicking Prevention

The receptacle has a nickel barrier and the plug has the insert molded design to prevent soldering.

8. Mated Design Protects Contacts

Both connectors contact parts are walled to prevent splashes such as flux from adhering to the contacts.

9. Compliant with RoHS

In consideration of environmental issues, we do not use substances prohibited by RoHS Directive.

High-Speed Signal Support, Noise Prevention

We also have a shielded type that can support high-speed signal and prevent noise.



Stacking Height Variation

Standard Type

Stacking Height No. of Pos.	1.5mm	2.0mm	2.5mm	3.0mm	3.5mm	4.0mm
10	0	-	0	-	-	-
12	0	0	-	-	-	-
20	0	0	0	-	0	-
24	0	0	-	-	-	-
30	0	0	0	0	0	-
34	0	-	-	-	-	-
40	0	0	0	0	0	-
44	-	0	-	0	-	-
50	0	0	0	0	0	0
60	0	0	0	0	0	0
70	0	0	-	0	-	-
80	0	0	-	0	0	0
90	0	-	-	0	-	0
100	0	-	-	0	-	-
120	0	-	-	-	-	-

Shielded Type

Stacking Height No. of Pos.	1.5mm	3.0mm	3.5mm
10	0	-	-
30	0	-	-
36	-	-	0
48	0	0	-
70	-	0	-



Product Specifications

Rated Current	0.3A (Note 1)	Operating Temperature (Note 2)	-55 to +85℃
Rated Voltage	50V AC/DC	Operating Humidity Range	20 to 80%
		Storage Temperature (Note 3)	-10 to +60℃
		Storage Humidity Range (Note 3)	40 to 70%

Item	Specifications	Conditions
Insulation Resistance	50M Ω Min.	Measured at 100V DC
Withstanding Voltage	No Flashover or Breakdown	150V AC for 1 min.
Contact Resistance	90m Ω Max.	Measured at 20 m V AC, 1kHz, 1mA
Vibration Resistance	No electrical discontinuity of 1 μ s or more.	Frequency 10 to 55Hz, single amplitude of 0.75mm, 2 hours each of 3-axis direction
Moisture Resistance	Contact Resistance : $90m\Omega$ Max. Insulation Resistance : $25M\Omega$ Min.	Temperature : $40 \pm 2^{\circ}\!$
Temperature Cycles	Contact Resistance : $90m\Omega$ Max. Insulation Resistance : $50M\Omega$ Min.	(-55°C : 30 min. → +5 to +35°C : 10 min. → +85°C : 30 min. → +5 to +35°C : 10 min.) 5 cycles
Mating Durability	Contact Resistance : $90m\Omega$ Max.	30 times
Solder Heat Resistance	No dissolution or resin melting that will affect performance.	Reflow: According to the Recommended Temperature Profile Hand Soldering: 350°C within 3 sec.

Note 1: The rated current for 120pos. is 0.25A.

Note 2: Includes temperature rise caused by current flow.

Note 3: Storage refers to the long-term storage condition for unused products before the board mounting.

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

Materials / Finish

Standard, Non Shielded Type

Product	Component	Material	Color / Finish	Remarks
Receptacle	Housing	LCP	Black	UL94V-0
neceptacle	Contact	Phosphorous Bronze	Gold Plating	-
Dive	Housing	LCP	Black	UL94V-0
Plug	Contact	Phosphorous Bronze	Gold Plating	-

Shielded Type

Product	Component	Material	Color / Finish	Remarks
	Housing	LCP	Black	UL94V-0
Receptacle	Contact	Phosphorous Bronze	Gold Plating	-
	Shield	Filospilorous Bronze	Gold Flatting	-
	Housing	LCP	Black	UL94V-0
Plug	Contact	Phosphorous Bronze	Gold Plating	-
	Retention Tab	Filospilorous Bronze	GOIU FIALIIIS	-



Product Number Structure

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.

■ Standard, Non Shielded Type

Receptacle

<u>DF40 # - (##) - # DS - 0.4 V (##)</u> 2 4

1 Series Name	DF40	6 Connector Type	DS : Double Row Receptacle
Shape Symbol	B: Retention Tab HB: Retention Tab (Stacking Height 2.5mm Min.) C: No Retention Tab HC: No Retention Tab (Stacking Height 2.5mm Min.)	6 Contact Pitch	0.4mm
3 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	Contact Type	V : Straight SMT
4 No. of Pos.	10, 12, 20, 24, 30, 34, 36, 40, 44, 48, 50, 60, 70, 80, 90, 100, 120	8 Packaging Type	(51): Embossed Packaging (58): Embossed Packaging

Plug

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

0	Series Name	DF40	6 Contact Pitch	0.4mm
2	Shape Symbol	C : No Retention Tab	6 Contact Type	V : Straight SMT
3	No. of Pos.	10, 12, 20, 24, 30, 34, 36, 40, 44, 48, 50, 60, 70, 80, 90, 100, 120	Packaging Type	(51) : Embossed Packaging(58) : Embossed Packaging
4	Connector Type	DP : Double Row Plug		

■ Shielded Type

Receptacle

<u>DF40</u>	GB ·	- <u>(##)</u> -	· <u>#</u>	<u>DS</u>	- <u>0.4</u>	<u>V</u>	<u>(##)</u>
0	2	3	4	6	6	7	8

•	Series Name	DF40	6 Connector Type	DS : Double Row Receptacle
Q	Shape Symbol	GB : With Shield	6 Contact Pitch	0.4mm
•	Stacking Height	1.5 : 1.5mm 3.0 : 3.0mm	Contact Type	V : Straight SMT
4	No. of Pos.	10, 30, 36, 48, 70	8 Packaging Type	(51): Embossed Packaging (58): Embossed Packaging

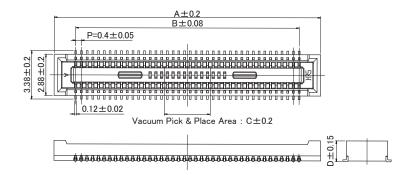
Plug

0	Series Name	DF40	6 Contact Pitch	0.4mm
2	Shape Symbol	GB : Retention Tab (For Shielded Type)	6 Contact Type	V : Straight SMT
3	No. of Pos.	10, 30, 36, 48, 70		(51): Embossed Packaging(58): Embossed Packaging
4	Connector Type	DP : Double Row Plug		

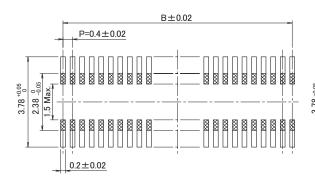
Receptacle

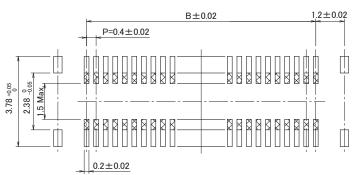
Stacking Height 1.5mm





Recommended PCB Pattern





DF40C (No Retention Tab)

DF40B (Retention Tab)

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Part No.	HRS No.	No. of Pos.	А	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40B-10DS-0.4V(##)	CL0684-4038-8-##	10	4.6	1.6	1.0		0	0
DF40B-12DS-0.4V(##)	CL0684-4152-3-##	12	5.0	2.0	1.0		0	0
DF40B-30DS-0.4V(##)	CL0684-4090-8-##	30	8.6	5.6	1.5		0	0
DF40B-50DS-0.4V(##)	CL0684-4018-0-##	50	12.6	9.6			0	-
DF40B-60DS-0.4V(##)	CL0684-4049-4-##	60	14.6	11.6	3.2		0	-
DF40B-80DS-0.4V(##)	CL0684-4052-9-##	80	18.6	15.6			0	-
DF40C-20DS-0.4V(##)	CL0684-4005-9-##	20	6.6	3.6	1.2		0	0
DF40C-24DS-0.4V(##)	CL0684-4006-1-##	24	7.4	4.4	1.5		0	0
DF40C-30DS-0.4V(##)	CL0684-4007-4-##	30	8.6	5.6	2.3	1.45	0	0
DF40C-34DS-0.4V(##)	CL0684-4023-0-##	34	9.4	6.4		1.45	0	0
DF40C-40DS-0.4V(##)	CL0684-4008-7-##	40	10.6	7.6			0	0
DF40C-50DS-0.4V(##)	CL0684-4009-0-##	50	12.6	9.6			0	0
DF40C-60DS-0.4V(##)	CL0684-4004-6-##	60	14.6	11.6			0	0
DF40C-70DS-0.4V(##)	CL0684-4016-5-##	70	16.6	13.6	3.2		0	0
DF40C-80DS-0.4V(##)	CL0684-4002-0-##	80	18.6	15.6			0	0
DF40C-90DS-0.4V(##)	CL0684-4124-8-##	90	20.6	17.6			0	0
DF40C-100DS-0.4V(##)	CL0684-4033-4-##	100	22.6	19.6			0	0
DF40C-120DS-0.4V(##)	CL0684-4108-1-##	120	26.6	23.6			0	-

[Specification Number]

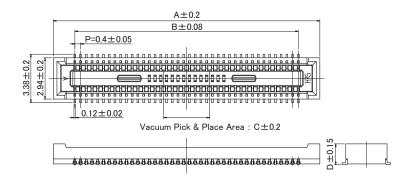
(51): Embossed Packaging (5,000pcs per reel) (58) : Embossed Packaging (1,000pcs per reel)

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

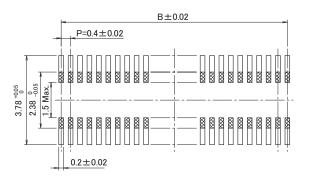
Note 2: The 60 pos. or more have recesses on the suction surface that do not affect suction. Note 3: \(\sum \) is insulation area. Note 4: This connector has no polarity.

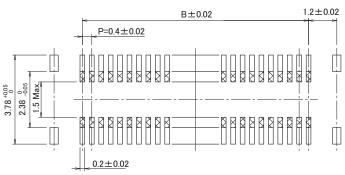
Stacking Height 2.0mm





Recommended PCB Pattern





DF40C (No Retention Tab)

DF40B (Retention Tab)

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40B(2.0)-12DS-0.4V(##)	CL0684-4150-8-##	12	5.0	2.0	1.0		0	0
DF40B(2.0)-80DS-0.4V(##)	CL0684-4128-9-##	80	18.6	15.6	3.2		0	-
DF40C(2.0)-20DS-0.4V(##)	CL0684-4040-0-##	20	6.6	3.6	1.0		0	0
DF40C(2.0)-24DS-0.4V(##)	CL0684-4041-2-##	24	7.4	4.4	1.2		0	0
DF40C(2.0)-30DS-0.4V(##)	CL0684-4058-5-##	30	8.6	5.6	1.5	1.95	0	0
DF40C(2.0)-40DS-0.4V(##)	CL0684-4042-5-##	40	10.6	7.6		1.95	0	0
DF40C(2.0)-50DS-0.4V(##)	CL0684-4091-0-##	50	12.6	9.6			0	0
DF40C(2.0)-60DS-0.4V(##)	CL0684-4034-7-##	60	14.6	11.6	3.2		0	0
DF40C(2.0)-70DS-0.4V(##)	CL0684-4147-3-##	70	16.6	13.6			0	0
DF40C(2.0)-80DS-0.4V(##)	CL0684-4132-6-##	80	18.6	15.6			0	0

[Specification Number]
(51): Embossed Packaging (4,000pcs per reel)
(58): Embossed Packaging (1,000pcs per reel)

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

Note 2: The 60 pos. or more have recesses on the suction surface that do not affect suction.

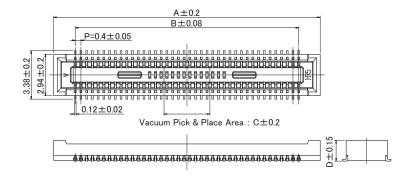
Note 3 : is insulation area.

Note 4 : This connector has no polarity.

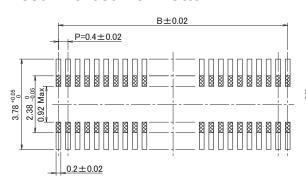
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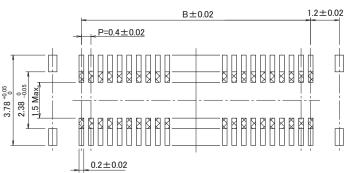
Stacking Height 2.5 to 4.0mm





Recommended PCB Pattern





DF40HC (No Retention Tab)

DF40HB (Retention Tab)

Stacking Height 2.5mm

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40HB(2.5)-10DS-0.4V(##)	CL0684-4189-3-##	10	4.6	1.6	1.0		0	-
DF40HC(2.5)-20DS-0.4V(##)	CL0684-4126-3-##	20	6.6	3.6	1.0		0	0
DF40HC(2.5)-30DS-0.4V(##)	CL0684-4127-6-##	30	8.6	5.6	1.5	2.4	0	-
DF40HC(2.5)-40DS-0.4V(##)	CL0684-4112-9-##	40	10.6	7.6		2.4	0	0
DF40HC(2.5)-50DS-0.4V(##)	CL0684-4101-2-##	50	12.6	9.6	3.2		0	0
DF40HC(2.5)-60DS-0.4V(##)	CL0684-4085-8-##	60	14.6	11.6			0	0

[Specification Nmber]

(51): Embossed Packaging (3,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

Stacking Height 3.0mm

Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40HC(3.0)-30DS-0.4V(##)	CL0684-4098-0-##	30	8.6	5.6	1.5		0	0
DF40HC(3.0)-40DS-0.4V(##)	CL0684-4169-6-##	40	10.6	7.6			0	-
DF40HC(3.0)-44DS-0.4V(##)	CL0684-4076-7-##	44	11.4	8.4			0	0
DF40HC(3.0)-50DS-0.4V(##)	CL0684-4099-2-##	50	12.6	9.6			0	0
DF40HC(3.0)-60DS-0.4V(##)	CL0684-4100-0-##	60	14.6	11.6	3.2	2.9	0	0
DF40HC(3.0)-70DS-0.4V(##)	CL0684-4138-2-##	70	16.6	13.6	3.2		0	0
DF40HC(3.0)-80DS-0.4V(##)	CL0684-4180-9-##	80	18.6	15.6			0	0
DF40HC(3.0)-90DS-0.4V(##)	CL0684-4161-4-##	90	20.6	17.6			0	0
DF40HC(3.0)-100DS-0.4V(##)	CL0684-4151-0-##	100	22.6	19.6			0	0

[Specification Nmber]

(51): Embossed Packaging (3,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

Stacking Height 3.5mm

Unit: mm

Part No.	HRS No.	No. of Pos.	Α	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40HC(3.5)-20DS-0.4V(##)	CL0684-4188-0-##	20	6.6	3.6	1.0		0	-
DF40HC(3.5)-30DS-0.4V(##)	CL0684-4136-7-##	30	8.6	5.6	1.5		0	0
DF40HC(3.5)-40DS-0.4V(##)	CL0684-4209-9-##	40	10.6	7.6		3.4	0	-
DF40HC(3.5)-50DS-0.4V(##)	CL0684-4109-4-##	50	12.6	9.6	3.2	3.4	0	0
DF40HC(3.5)-60DS-0.4V(##)	CL0684-4102-5-##	60	14.6	11.6	3.2		0	0
DF40HC(3.5)-80DS-0.4V(##)	CL0684-4162-7-##	80	18.6	15.6			0	0

[Specification Nmber]

(51): Embossed Packaging (2,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

Stacking Height 4.0mm

Unit: mm

Part No.	HRS No.	No. of Pos.	Α	В	С	D	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40HB(4.0)-50DS-0.4V(##)	CL0684-4104-0-##	50	12.6	9.6			0	-
DF40HC(4.0)-40DS-0.4V(##)	CL0684-4111-6-##	40	10.6	7.6			0	-
DF40HC(4.0)-50DS-0.4V(##)	CL0684-4215-1-##	50	12.6	9.6	3.2	3.9	0	-
DF40HC(4.0)-60DS-0.4V(##)	CL0684-4133-9-##	60	14.6	11.6	5.2	3.9	0	0
DF40HC(4.0)-80DS-0.4V(##)	CL0684-4140-4-##	80	18.6	15.6			0	0
DF40HC(4.0)-90DS-0.4V(##)	CL0684-4165-5-##	90	20.6	17.6			0	0

[Specification Nmber]

(51): Embossed Packaging (2,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

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

Note 2 : The 60 pos. or more have recesses on the suction surface that do not affect suction.

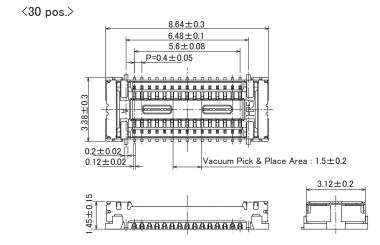
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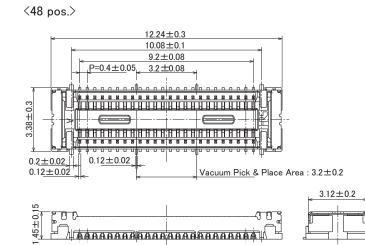


Receptacle (With Shield)

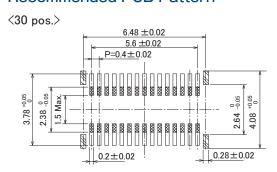
Stacking Height 1.5mm (With Shield)

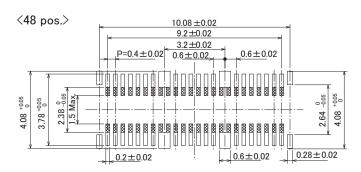






Recommended PCB Pattern





Unit: mm

Part No.	HRS No.	No. of Pos.	Signal PIN	Ground PIN	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40GB(1.5)-10DS-0.4V(##)	CL0684-4224-2-##	10	10	4	0	0
DF40GB(1.5)-30DS-0.4V(##)	CL0684-4198-4-##	30	30	4	0	0
DF40GB(1.5)-48DS-0.4V(##)	CL0684-4194-3-##	48	40	12	0	0

[Specification Nmber]

(51): Embossed Packaging (5,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

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

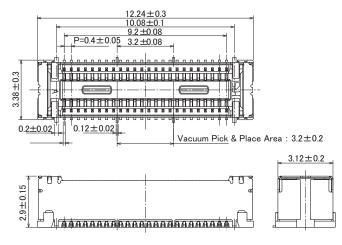
Note 2 : is insulation area.

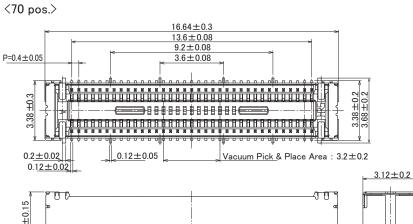
Note 3 : This connector has no polarity.

Stacking Height 3.0 to 3.5mm (With Shield)

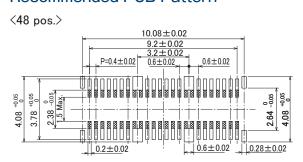


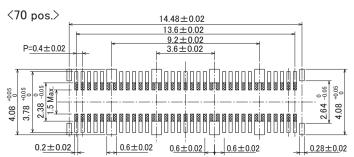
<48 pos.>





Recommended PCB Pattern





Stacking Height 3.0mm

Unit: mm

Part No.	HRS No.	No. of Pos.	Signal PIN	Ground PIN	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40GB(3.0)-48DS-0.4V(##)	CL0684-4197-1-##	48	40	12	0	0
DF40GB(3.0)-70DS-0.4V(##)	CL0684-4196-9-##	70	54	20	0	0

Stacking Height 3.5mm

Unit: mm

Part No.	HRS No.	No. of Pos.	Signal PIN	Ground PIN	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40GB(3.5)-36DS-0.4V(##)	CL0684-4231-0-##	36	36	4	0	-

[Specification Nmber]

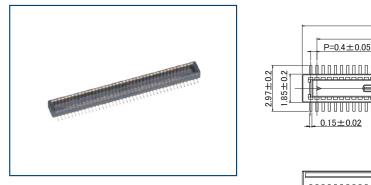
(51): Embossed Packaging (3,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

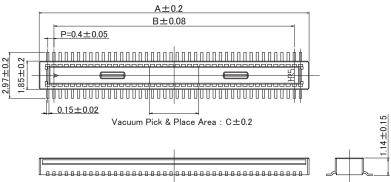
Note 1: Please order embossed tape packaged items by the reel.

Note 2: The 70 pos. or more have recesses on the suction surface that do not affect suction. Note 3: Simple is insulation area.

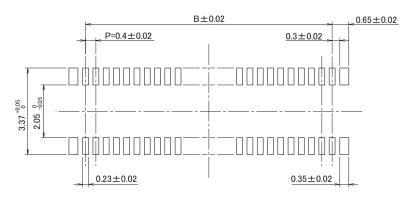
Note 4: This connector has no polarity.

Plug





Recommended PCB Pattern



Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40C-10DP-0.4V(##)	CL0684-4035-0-##	10	3.52	1.6		0	0
DF40C-12DP-0.4V(##)	CL0684-4149-9-##	12	3.92	2.0	1.0	0	0
DF40C-20DP-0.4V(##)	CL0684-4010-9-##	20	5.52	3.6		0	0
DF40C-24DP-0.4V(##)	CL0684-4011-1-##	24	6.32	4.4	1.2	0	0
DF40C-30DP-0.4V(##)	CL0684-4012-4-##	30	7.52	5.6	1.5	0	0
DF40C-34DP-0.4V(##)	CL0684-4024-3-##	34	8.32	6.4	2.3	0	0
DF40C-40DP-0.4V(##)	CL0684-4013-7-##	40	9.52	7.6		0	0
DF40C-44DP-0.4V(##)	CL0684-4077-0-##	44	10.32	8.4		0	0
DF40C-50DP-0.4V(##)	CL0684-4014-0-##	50	11.52	9.6		0	0
DF40C-60DP-0.4V(##)	CL0684-4003-3-##	60	13.52	11.6		0	0
DF40C-70DP-0.4V(##)	CL0684-4015-2-##	70	15.52	13.6	3.2	0	0
DF40C-80DP-0.4V(##)	CL0684-4001-8-##	80	17.52	15.6		0	0
DF40C-90DP-0.4V(##)	CL0684-4125-0-##	90	19.52	17.6		0	0
DF40C-100DP-0.4V(##)	CL0684-4032-1-##	100	21.52	19.6		0	0
DF40C-120DP-0.4V(##)	CL0684-4107-9-##	120	25.52	23.6		0	-

[Specification Nmber]

(51): Embossed Packaging (5,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

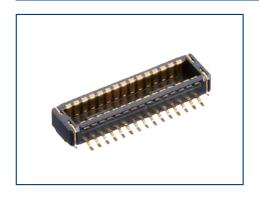
Note 1: Please order embossed tape packaged items by the reel.

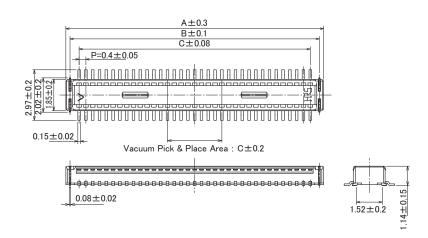
Note 2: There are no concave areas on plug side contact part to increase the mating strength for 60 pos. or more. Note 3: Use the 4 corner contact as a retention tab. It will not be energized.

Note 4 : The 90 pos. or more have recesses on the suction surface that do not affect suction.

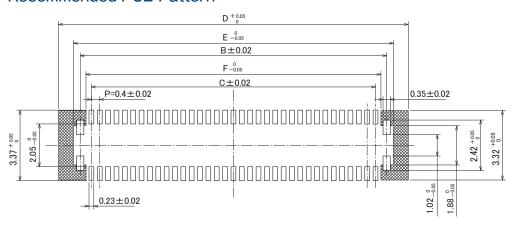
Note 5: This connector has no polarity.

Plug (With Shield)





Recommended PCB Pattern



Unit: mm

Part No.	HRS No.	No. of Pos.	А	В	С	D	E	F	G	Purchase Unit (##):(51)	Purchase Unit (##):(58)
DF40GB-10DP-0.4V(##)	CL0684-4225-5-##	10	3.16	2.67	1.6	4.74	3.32	2.12	1.0	0	0
DF40GB-30DP-0.4V(##)	CL0684-4200-4-##	30	7.16	6.67	5.6	8.74	7.32	6.12	1.5	0	0
DF40GB-36DP-0.4V(##)	CL0684-4232-0-##	36	8.36	7.87	6.8	9.94	8.52	7.32	2.3	0	-
DF40GB-48DP-0.4V(##)	CL0684-4195-6-##	48	10.76	10.27	9.2	12.34	10.92	9.72	3.2	0	0
DF40GB-70DP-0.4V(##)	CL0684-4199-7-##	70	15.16	14.67	13.6	16.74	15.32	14.12	3.2	0	0

[Specification Nmber]

(51): Embossed Packaging (5,000pcs per reel) (58): Embossed Packaging (1,000pcs per reel)

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

Note 2: There are no concave areas on plug side contact part to increase the mating strength for 60 pos. or more. Note 3: Strength for 60 pos. or more. Note 3: This connector has no polarity.

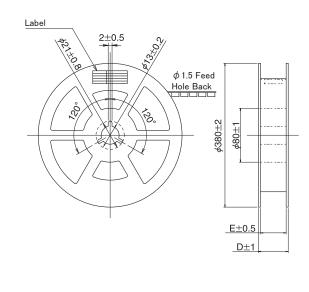
Packaging Specifications Diagram (JIS C 0806 Compliant)

Receptacle (Stacking Height 1.5mm)

Embossed Tape Dimensions

2±0.1 $+\oplus+$ 10.3±0.1 Unreeling Direction

Reel Dimensions



Stacking Height 1.5mm

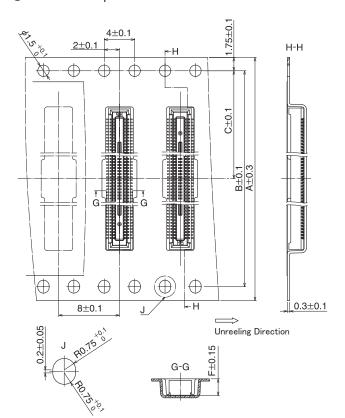
Part No.	А	В	С	D	E
DF40B-10DS-0.4V(##)	16		7.5	21.5	17.5
DF40B-12DS-0.4V(##)	16		7.5	21.5	17.5
DF40B-30DS-0.4V(##)		-			
DF40B-50DS-0.4V(##)	24		11.5	29.5	25.5
DF40B-60DS-0.4V(##)					
DF40B-80DS-0.4V(##)	32	28.4	14.2	37.5	33.5
DF40C-20DS-0.4V(##)	16		7.5	21.5	17.5
DF40C-24DS-0.4V(##)	16		7.5	21.5	17.5
DF40C-30DS-0.4V(##)					
DF40C-34DS-0.4V(##)		-			
DF40C-40DS-0.4V(##)	24		11.5	29.5	25.5
DF40C-50DS-0.4V(##)					
DF40C-60DS-0.4V(##)					
DF40C-70DS-0.4V(##)	32	28.4	14.2	37.5	22.5
DF40C-80DS-0.4V(##)	32	20.4	14.2	37.5	33.5
DF40C-90DS-0.4V(##)					
DF40C-100DS-0.4V(##)	44	40.4	20.2	49.5	45.5
DF40C-120DS-0.4V(##)					
DF40GB(1.5)-30DS-0.4V(##)	24		11 5	20 F	25.5
DF40GB(1.5)-48DS-0.4V(##)	24	-	11.5	29.5	25.5

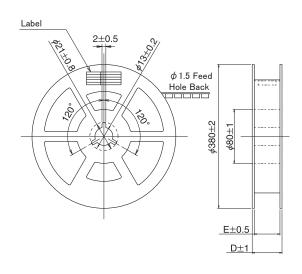
Note: The hole of the carrier tape for 10 to 60pos. is only one side.

Receptacle (Stacking Height 2.0 to 2.5mm)

Embossed Tape Dimensions

Reel Dimensions





Stacking Height 2.0mm

Unit: mm

Part No.	А	В	С	D	E	F					
DF40B(2.0)-12DS-0.4V(##)	16	-	7.5	21.5	17.5						
DF40B(2.0)-80DS-0.4V(##)	32	28.4	14.2	37.5	33.5						
DF40C(2.0)-20DS-0.4V(##)	16		7.5	21.5	17.5	2.2					
DF40C(2.0)-24DS-0.4V(##)											
DF40C(2.0)-30DS-0.4V(##)	24										
DF40C(2.0)-40DS-0.4V(##)		04	04	24	24	24	-	11.5	29.5	25.5	2.2
DF40C(2.0)-50DS-0.4V(##)			11.5	29.5	25.5						
DF40C(2.0)-60DS-0.4V(##)											
DF40C(2.0)-70DS-0.4V(##)	32	00.4	14.0	07 F	33.5						
DF40C(2.0)-80DS-0.4V(##)		28.4	14.2	37.5							

Stacking Height 2.5mm

Unit: mm

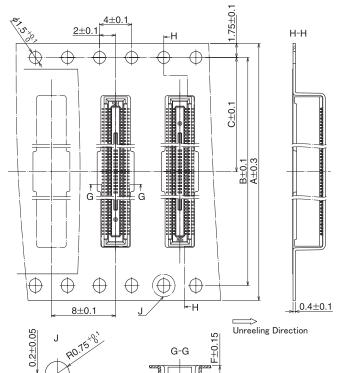
Part No.	А	В	С	D	E	F
DF40HB(2.5)-10DS-0.4V(##)	16	-	7.5	21.5	17.5	2.72
DF40HC(2.5)-20DS-0.4V(##)						
DF40HC(2.5)-30DS-0.4V(##)	- 24		11.5	29.5	25.5	
DF40HC(2.5)-40DS-0.4V(##)						
DF40HC(2.5)-50DS-0.4V(##)						
DF40HC(2.5)-60DS-0.4V(##)						

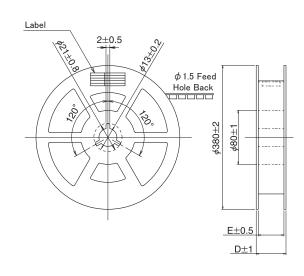
Note: The hole of the carrier tape for 10 to 60pos. is only one side.

Receptacle (Stacking Height 3.0 to 4.0mm)

Embossed Tape Dimensions

Reel Dimensions









Stacking Height 3.0mm

I Init · mm

Part No.	А	В	С	D	Е	F
DF40HC(3.0)-30DS-0.4V(##)						
DF40HC(3.0)-40DS-0.4V(##)						
DF40HC(3.0)-44DS-0.4V(##)	24	-	11.5	29.5	25.5	
DF40HC(3.0)-50DS-0.4V(##)						3.15
DF40HC(3.0)-60DS-0.4V(##)						
DF40HC(3.0)-70DS-0.4V(##)	32	28.4	14.2	37.5	33.5	
DF40HC(3.0)-80DS-0.4V(##)	32					
DF40HC(3.0)-90DS-0.4V(##)	44	40.4	00.0	49.5	45.5	
DF40HC(3.0)-100DS-0.4V(##)	44		20.2			
DF40GB(3.0)-48DS-0.4V(##)	24	-	11.5	29.5	25.5	
DF40GB(3.0)-70DS-0.4V(##)	32	28.4	14.2	37.5	33.5	

Stacking Height 3.5mm

Unit: mm

Part No.	Α	В	С	D	E	F
DF40HC(3.5)-20DS-0.4V(##)	16		7.5	21.5	17.5	
DF40HC(3.5)-30DS-0.4V(##)						
DF40HC(3.5)-40DS-0.4V(##)	04	-	44.5	29.5	25.5	3.72
DF40HC(3.5)-50DS-0.4V(##)	24		11.5	29.5	25.5	3.72
DF40HC(3.5)-60DS-0.4V(##)						
DF40HC(3.5)-80DS-0.4V(##)	32	28.4	14.2	37.5	33.5	



Stacking Height 4.0mm

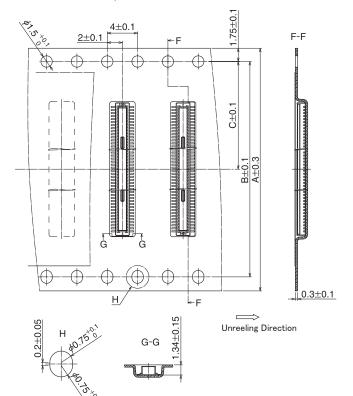
Unit : mm

Part No.	А	В	С	D	E	F
DF40HB(4.0)-50DS-0.4V(##)		-	11.5	29.5	25.5	
DF40HC(4.0)-40DS-0.4V(##)	24					
DF40HC(4.0)-50DS-0.4V(##)	24					4.15
DF40HC(4.0)-60DS-0.4V(##)						4.15
DF40HC(4.0)-80DS-0.4V(##)	32	28.4	14.2	37.5	33.5	
DF40HC(4.0)-90DS-0.4V(##)	44	40.4	20.2	49.5	45.5	

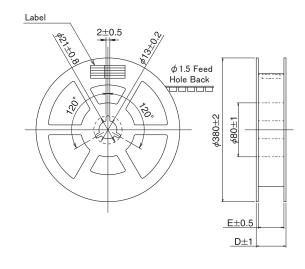


Plug

Embossed Tape Dimensions



Reel Dimensions

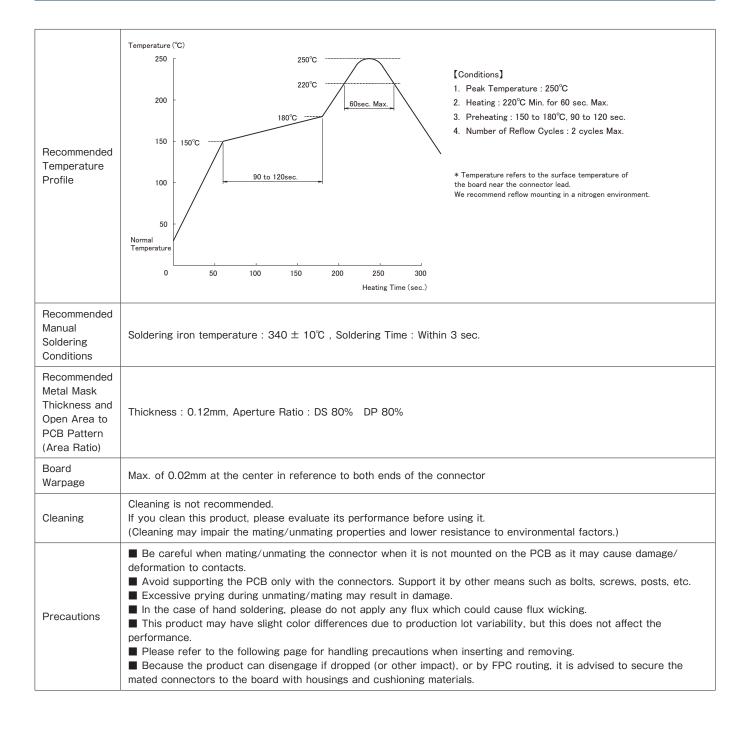


Unit : mm

Part No.	А	В	О	D	E
DF40C-10DP-0.4V(##)	12		5.5	17.5	13.5
DF40C-12DP-0.4V(##)	12		5.5	17.5	13.5
DF40C-20DP-0.4V(##)					
DF40C-24DP-0.4V(##)	16		7.5	21.5	17.5
DF40C-30DP-0.4V(##)					
DF40C-34DP-0.4V(##)		-			
DF40C-40DP-0.4V(##)					
DF40C-44DP-0.4V(##)	24		11.5	29.5	25.5
DF40C-50DP-0.4V(##)					
DF40C-60DP-0.4V(##)					
DF40C-70DP-0.4V(##)	32	28.4	14.2	37.5	33.5
DF40C-80DP-0.4V(##)	32	20.4	14.2	37.5	33.3
DF40C-90DP-0.4V(##)					
DF40C-100DP-0.4V(##)	44	40.4	20.2	49.5	45.5
DF40C-120DP-0.4V(##)					
DF40GB-10DP-0.4V(##)	12		5.5	17.5	13.5
DF40GB-30DP-0.4V(##)	16		7.5	21.5	17.5
DF40GB-36DP-0.4V(##)		-			
DF40GB-48DP-0.4V(##)	24		11.5	29.5	25.5
DF40GB-70DP-0.4V(##)					

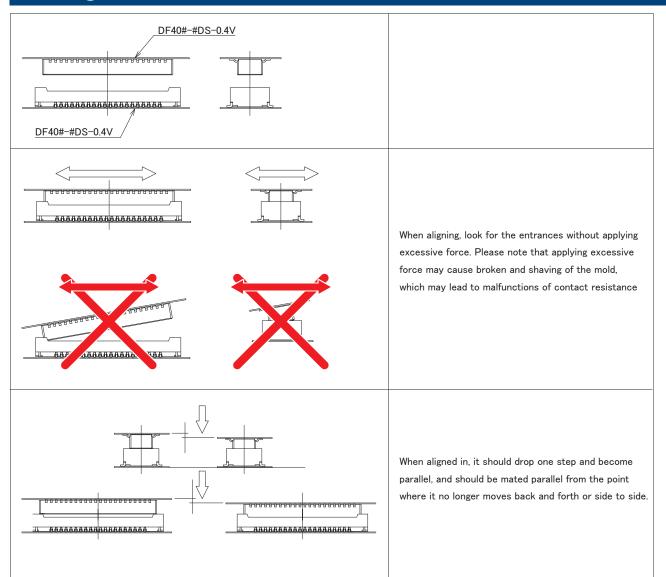
Note: The hole of the carrier tape for 10 to 60pos. is only one side.

Precautions

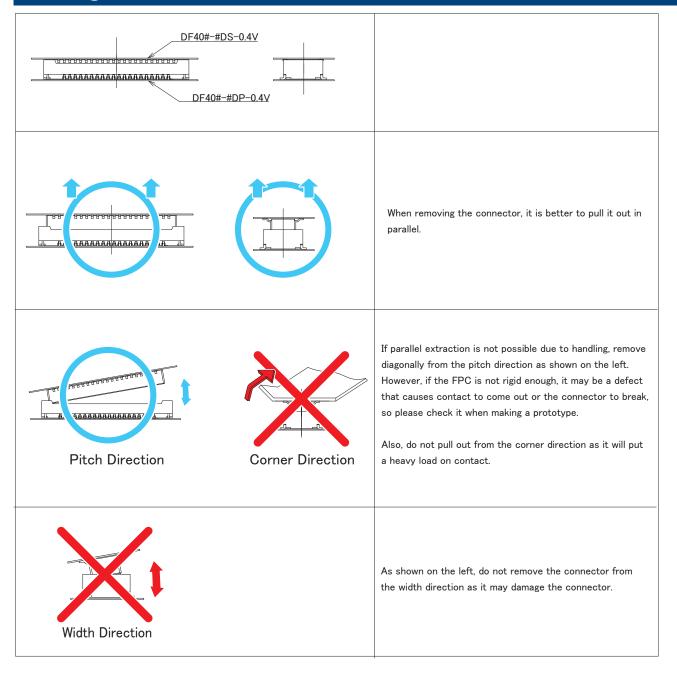


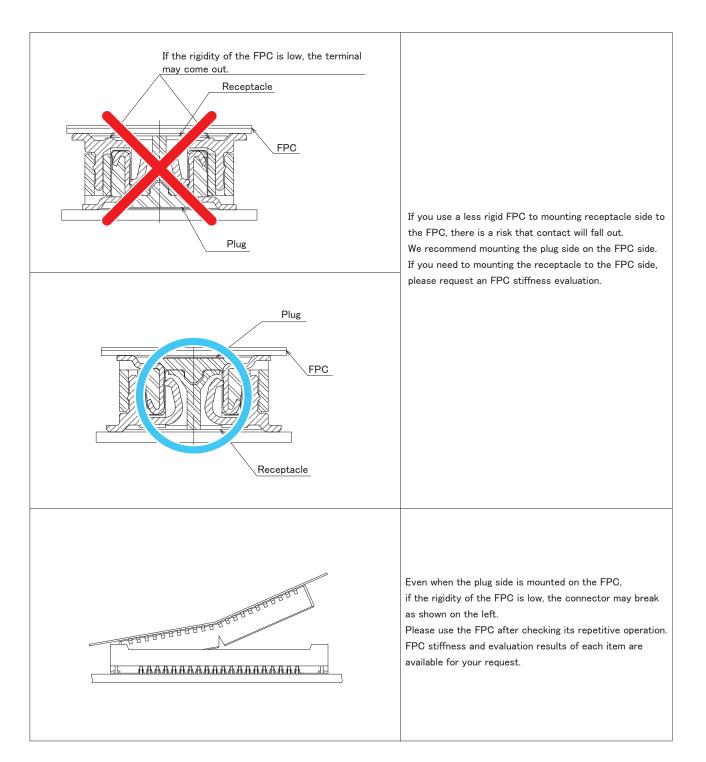


Handling Precautions for Connector Insertion



Handling Precautions for Connector Removal





While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please review 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, the warranty of the product may be affected.

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.

HIROSE