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



Stacking height variations

Standard type Stacking 3.0 3.5 1.5 2.0 2.5 4.0 height mm mm mm mm mm mm 10 0 0 _ 12 _ _ 20 \bigcirc \bigcirc 0 _ 0 _ 24 0 0 _ _ _ _ 30 0 0 0 _ Contacts 34 0 40 0 0 _ 44 _ ę 50 ģ 60 \bigcirc \bigcirc \bigcirc \bigcirc 70 \bigcirc _ 80 \bigcirc 0 _ 0 \bigcirc 90 \bigcirc _ _ _ \bigcirc 100

2022.9 HS 1

Shielded type

onnen					
Stac hei	king ght	1.5 mm	3.0 mm		
of cts	30	0	-		
No. of contacts	48	0	0		
∠°	70	-	0		

Product Specifications

Ratings	Rated Current 0.3A Rated Voltage AC, DC 30V	Operating Temperating -35 to +85°C (Note Operating Humidity F 20 to 80%	1)	Storage Temperature Range -10 to +60°C (Note 2) Storage Humidity Range 40 to 70% (Note 2)	
Items	Specifica	tions		Conditions	
1. Insulation Resistar	nce 50MΩ min		Measured with	h DC 100V	
2. Withstanding Volta	ige No flashover or breakdov	vn	Apply AC 100	V for 1 minute	
3. Contact Resistanc	e 90mΩ max		Measured with	h AC 20mV, 1 kHz and 1mA	
4. Vibration Resistan	ce No electrical discontinuity	No electrical discontinuity of 1μ s or greater		-55 Hz, half amplitude 0.75mm, or 2 hours	
5. Humidity Resistan	5. Humidity Resistance Contact resistance : 90mΩ max Insulation resistance : 25mΩ min		Left at temperature $40 \pm 2^{\circ}$ C, humidity 90 to 95%, 96 hours		
6. Temperature Cycle	es Contact resistance : 90m Insulation resistance : 50				
7. Durability	Contact resistance : 90mΩ max 30 mating cycles		les		
8. Soldering Heat Resistance			Temp Hand solder :	rding to the Recommended berature Profile 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
	Contact	Phosphor bronze	Gold plating	
Header	Insulator	LCP	Black	UL94V-0
Header	Contact	Phosphor bronze	Gold plating	

Materials (Shielded type) / Finish

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



HS 3

Receptacle (Stacking height 1.5mm)





Recommended PCB layout



DF40C(Without reinforcing metal fitting)

Stacking height 1.5mm

[Specification No.] (51) : Embossed package 5,000 pcs/reel

11.5

				-		Unit : mm
Part No.	HRS No.	No. of Contacts	А	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 : I 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	1.05
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 b	y 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 : I Resist coating area.



■Receptacle (Stacking height 2.5mm to 4.0mm)





Recommended PCB layout



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	А	В	С	D
DF40HB(2.5)-10DS-0.4V(51)	684-4189-3 51	10	4.6	1.6	- 1.0	2.4
DF40HC(2.5)-20DS-0.4V(51)	684-4126-3 51	20	6.6	3.6		
DF40HC(2.5)-40DS-0.4V(51)	684-4112-9 51	40	10.6	7.6		
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	А	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		2.9
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	3.2	
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 : XXX 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	А	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	3.4
DF40HC(3.5)-40DS-0.4V(51)	684-4209-9 51	40	10.6	7.6		
DF40HC(3.5)-50DS-0.4V(51)	684-4109-4 51	50	12.6	9.6	2.0	
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	А	В	С	D
DF40HB(4.0)-50DS-0.4V(51)	684-4104-0 51	50	12.6	9.6	3.2	3.9
DF40HC(4.0)-50DS-0.4V(51)	684-4215-1 51	50	12.6			
DF40HC(4.0)-60DS-0.4V(51)	684-4133-9 51	60	14.6	11.6		
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 : I Resist coating area.

■Receptacle (Stacking height 1.5mm, with shield)

< 30 contact >











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Recommended PCB layout



< 48 contact > 10.08±0.02 9.2±0.02 3.2 ± 0.02 P=0.4±0.02 0.6±0.02 0.6±0.0 AnninnA. Π¢ηη ΠΠ $4.08_{-0.05}^{+0.05}$ 2.38_0.05 2.64^{0.05} 4.08^{+0.05} $3.78_{-0.05}^{+0.05}$ 0.28±0.02 0.2±0.02 0.6±0.02

Stacking height 1.5mm

[Specification No.] (51) : Embossed package 5,000 pcs/reel

(105

1

				Unit : mm
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

.45±0.

Note 1 : Please place orders by full reel.

Note 2 : I Resist coating area.





Recommended PCB layout



Stacking height 3.0mm

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

HS 9

				Unit : mm
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 : I Resist coating area.

Header





Unit : mm

Recommended PCB layout



Part No. HRS No. No. of Contacts А 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 3.92 2.0 1.0 12 DF40C-20DP-0.4V(51) 684-4010-9 51 20 5.52 3.6 DF40C-24DP-0.4V(51) 6.32 1.2 684-4011-1 51 24 4.4 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 13.52 60 11.6 3.2 DF40C-70DP-0.4V(51) 15.52 684-4015-2 51 70 13.6 DF40C-80DP-0.4V(51) 684-4001-8 51 80 17.52 15.6 DF40C-90DP-0.4V(51) 684-4125-0 51 19.52 17.6 90 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)





Recommended PCB layout



								ι	Jnit : mm
Part No.	HRS No.	No. of Contacts	А	В	С	D	E	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 : I Resist coating area.

Embossed Carrier Tape Dimensions (JIS C 0806 compliant)

•Receptacle (Stacking height 1.5mm)

1.75±0.1 4±0.1 -F 2±0.1 F-F ŧ \oplus 4 C±0.1 B±0.1 A±0.3 1 1 G G Ð ¢ \oplus \oplus 0.3±0.1 Н 8±0.1 -F \Longrightarrow **Unreeling Direction** 15 .65±0.1 0.2±0.05 R0.75 G-G Н

•Reel Condition Dimensions



Stacking height 1.5mm

					Unit : mm	
Part No.	A	В	С	D	E	
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 21.5	21.5	17.5		
DF40#-24DS-0.4V(51)		_				
DF40#-30DS-0.4V(51)		_				
DF40#-34DS-0.4V(51)		—				
DF40#-40DS-0.4V(51)	24	—	11.5	29.5	25.5	
DF40#-50DS-0.4V(51)		_				
DF40#-60DS-0.4V(51)		—				
DF40#-70DS-0.4V(51)	32	00.4	14.2	37.5	00 F	
DF40#-80DS-0.4V(51)	32	28.4			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	45.5	
DF40GB(1.5)-30DS-0.4V(51)	24	_	11.5	29.5	0E E	
DF40GB(1.5)-48DS-0.4V(51)	24	_	11.5		25.5	

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)

•Reel Dimensions





Stacking height 2.0mm

Stacking height	2.0mm					Unit : mm
Part No.	A	В	С	D	E	F
DF40#(2.0)-12DS-0.4V(51)		<u> </u>				
DF40#(2.0)-20DS-0.4V(51)	16		17.5			
DF40#(2.0)-24DS-0.4V(51)		—				
DF40#(2.0)-30DS-0.4V(51)		—				
DF40#(2.0)-40DS-0.4V(51)	24	_	11.5 29.5	20 F	25.5	2.2
DF40#(2.0)-50DS-0.4V(51)	24	_		29.5	25.5	
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

	2.511111					Unit : mm
Part No.	A	В	С	D	E	F
DF40H#(2.5)-10DS-0.4V(51)	16	-	7.5	5 21.5	17.5	2.72
DF40H#(2.5)-20DS-0.4V(51)	10	_	7.5	21.5		
DF40H#(2.5)-40DS-0.4V(51)		_				
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. A В С Е F D DF40H#(3.0)-30DS-0.4V(51) DF40H#(3.0)-40DS-0.4V(51) DF40H#(3.0)-44DS-0.4V(51) 24 11.5 29.5 25.5 DF40H#(3.0)-50DS-0.4V(51) DF40H#(3.0)-60DS-0.4V(51) DF40H#(3.0)-70DS-0.4V(51) 3.15 32 28.4 14.2 37.5 33.5 DF40H#(3.0)-80DS-0.4V(51) DF40H#(3.0)-90DS-0.4V(51) 44 40.4 20.2 49.5 45.5 DF40H#(3.0)-100DS-0.4V(51) DF40GB(3.0)-48DS-0.4V(51) 24 11.5 29.5 25.5 DF40GB(3.0)-70DS-0.4V(51) 33.5 32 28.4 14.2 37.5

Stacking height 3.5mm

						Unit : mm
Part No.	A	В	С	D	E	F
DF40H#(3.5)-20DS-0.4V(51)	16	—	7.5	21.5	17.5	3.72
DF40H#(3.5)-30DS-0.4V(51)		—				
DF40H#(3.0)-40DS-0.4V(51)	04	_	44 5	29.5	05.5	
DF40H#(3.5)-50DS-0.4V(51)	24	_	11.5	29.5	25.5	
DF40H#(3.5)-60DS-0.4V(51)		—				

Stacking height 4.0mm

						Unit : mm
Part No.	A	В	С	D	E	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	_	11.5	29.5		
DF40H#(4.0)-80DS-0.4V(51)	32	28.4	14.2	37.5	33.5	
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.



Header



Reel Dimensions



Part No.	A	В	С	D	E
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)		_	7.5		
DF40C-24DP-0.4V(51)	16	_		21.5	17.5
DF40C-30DP-0.4V(51)		—			
DF40C-34DP-0.4V(51)		—			
DF40C-40DP-0.4V(51)		—		29.5	
DF40C-44DP-0.4V(51)	24	_	11.5		25.5
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)	32	20.4	14.2		33.5
DF40C-90DP-0.4V(51)	44		40.5	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	—	44.5	29.5	25.5
DF40GB-70DP-0.4V(51)	24		11.5		20.0

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.

Unit : mm

Operating Precautions

1. Recommended Solder Profile	Temperature (°C)					
	250°C					
	220°C					
	200 - 60 seconds or below					
	150 150°C-					
	90 to 120 seconds					
	50					
	Normal (temperature					
	0 50 100 150 200 250 300					
	Heating time (sec.)					
	[Conditions]					
	1. Peak temperature Maximum of 250°C					
	2. Heating partMinimum of 220°C within 60 seconds3. Preheating part150 to 180°C90 to 120 seconds					
	 3. Preheating part 150 to 180°C 90 to 120 seconds 4. Number of times Maximum of 2 cycles 					
	Note 1 : The temperature shows PCB surface temperature near the connector lead part.					
2. Recommended hand solder conditions	Soldering iron temperature 340 \pm 10 $^\circ$ C, solder time no more than 3 seconds					
3. Recommended screen thickness: Opening ratio (pattern area ratio)	Thickness : 0.12mm Opening ratio : DS side 80% DP side 80%					
4. Leaning of PCB	Max 0.02mm at the center of connector (using both edges of connector as criteria)					
5. Washing	Cleaning/washing is not recommended for this connector. Cleaning agents can deteriorate the mechanical operation and the environmental resistance of this connector.					
6. Precautions	 Do not mate or unmate these connectors until they are mounted, failure to follow this precaution can lead to deformation or damage to these connectors. Provide another form of support to the PCB, this connector was not designed to be the main form of support. Mating and unmating with excessive force can cause damage. 					
	Do not apply excessive amounts of flux as it may cause excess solder and flux wicking.					
	There may be a slight variance in the color of the molding between production lots, this variance will not affect the performance of the connector.					
	Refer to the next page for the handling precautions when mating and unmating the connectors.					
	If the connector becomes disconnected due to impact, a fall or a counterforce to the FPC, it may be necessary to hold the connector in place with an addition to the device's case or other cushioning material to hold the connector in place.					

Precautions when connector mating



Precautions when unmating a connector



Precautions when unmating a connector



MEMO:

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