

DADT AHMOED	CODE NUMBER	NUMBER OF CONTACTS	DIMENSION OF CONNECTOR, FPC, PCB MOUNTING PATTERN AND STENCIL					DIMENSION OF DRAWING FOR PACKING					
PART NUMBER			А	В	С	D	E	F	G	Н	J	К	
FH35C- 9S-0.3SHW(50)	CL580-2910-5-50	9	4.3	1.8	2.4	3.03	3.73	3.0	16	_	7.5	17.4	21
FH35C-11S-0.3SHW(50)	CL580-2917-4- 5 0	11	4.9	2.4	3.0	3.63	4.33	3.6	16	_	7.5	17.4	21
FH35C-13S-0.3SHW(50)	CL580-2925-2-50	13	5.5	3.0	3.6	4.23	4.93	4.2	16	_	7.5	17.4	2:
FH35C-15S-0.3SHW(50)	CL580-2919-0-50	15	6.1	3.6	4.2	4.83	5.53	4.8	16	_	7.5	17.4	2
FH35C-17S-0.3SHW(50)	CL580-2916-1-50	171	6.7	4.2	4.8	5. 43	Б. 13	5.4	16	_	7.5	17.4	2
FH35C-19S-0.3SHW(50)	CL580-2921-1-50	19/	7.3	4.8	5.4	6.03	6.73	6.0	16	_	7.5	17.4	2
FH35C-21S-0.3SHW(50)	CL580-2922-4-50	21 🕠	7.9	5.4	6.0	6.63	7.33	6.6	24	_	11.5	25.4	á
FH35C-23S-0.3SHW(50)	CL580-2911-8-50	23	8.5	6.0	6.6	7.23	7.93	7.2	24	_	11.5	25.4	í
FH35C-25S-0.3SHW(50)	CL580-2912-0-50	25	9-1	6.6	7.2	7.83	8.53	7.8	24	_	11.5	25.4	
FH35C-27S-0.3SHW(50)	CL580-2918-7-50	27	9.7	7/2	7.8	8.43	9. 13	8.4	24	_	11.5	25.4	
FH35C-31S-0.3SHW(50)	CL580-2923-7-50	31	10.9	8.4	9.0	9.63	10.33	9.6	24	_	11.5	25.4	
FH35C-33S-0.3SHW(50)	CL580-2913-3-50	33	11.5	9.0	9.6	10.23	10.93	10.2	24	_	11.5	25.4	
FH35C-35S-0.3SHW(50)	CL580-2926-5-50	35	12.1	9.6	10.2	10.83	11.53	10.B	24	_	11.5	25.4	
FH35C-37S-0.3SHW(50)	CL580-2914-6-50	37	12.7	10.2	10.8	11.43	12. 13	11.4	24	_	11.5	25.4	
FH35C-39S-0.3SHW(50)	CL580-2915-9-50	39	13.3	10 · B	11.4	12.03	12.73	12.0	24	_	11.5	25.4	
FH35C-41S-0.3SHW(50)	CL580-2924-0-50	41	13.9	11.4	12.0	12.63	13.33	12.6	24	_	11.5	25.4	
FH35C-45S-0.3SHW(50)	CL580-2909-6-50	45	15.1	12.6	13.2	13.83	14.53	13.8	24	_	11.5	25.4	
FH35C-49S-0.3SHW(50)	CL580-2927-8-50	49	16.3	13.8	14.4	15.03	15. 73	15.0	32	28.4	14.2	33.4	
FH35C-51S-0.3SHW(50)	CL580-2920-9-50	51	16.9	14.4	15.0	15.63	16.33	15.6	32	28.4	14.2	33.4	
FH35C-55S-0.3SHW(50)	CL580-2931-5-50	55	18. 1	15.6	16.2	16.83	17.53	16.8	32	28. 4	14.2	33. 4	
FH35C-61S-0.3SHW(50)	CL580-2928-0-50	61	19.9	17.4	18.0	18.63	19.33	18.6	32	28. 4	14.2	33. 4	

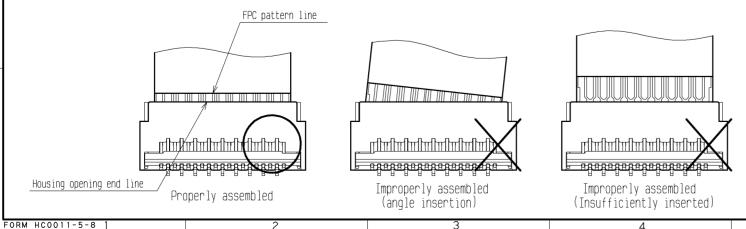
HRS DRAWING NO.
PART NO.
CODE NO. EDC3-338903-01 FH35C-**S-0.3SHW(50) CL580 4 4 6

FORM HC0011-5-8 1

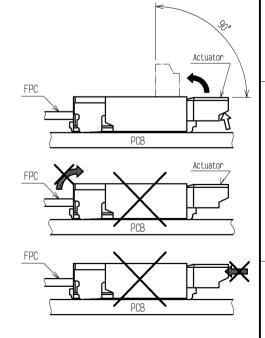
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This connector features small, thin and back flip design, requiring delicate and careful handling. Read through the instructions shown below and handle the connector properly. Operation and Precautions 4. How to lock 1. Initial condition Apply load to rotate the actuator by 90 degree after inserting the FPC. Actuator does not have to be operated before inserting FPC. as the connector is delivered with the actuator opened. Actuator close [Open when delivered] [Prohibited acts] Actuator -Do not close the actuator before inserting FPC. Closing the actuator without FPC could make the contact gap smaller, which could increase the FPC insertion force when FPC is inserted. (Figure:1) Do not insert the FPC at a sharp angle as this may cause contact Improper operation deformation by the FPC touching to contact tips. (Figure:2) The FPC touching to contact tips could cause contact deformation. Proper operation Improper operation The smaller contact gap makes the FPC insertion increase. [Caution] -The actuator rotates around the rotational axis as shown below. -Do not rotate the actuator to the counter direction. Do not pinch or pick the actuator to lift. Otherwise, it may break. -Apply load to the mid-point on the actuator to rotate it. Do not apply force to side end of the actuator. Uneven load could twist the actuator and cause half mating. -Do not apply excess force to the housing during the operation. Figure:2 2. How to insert FPC [Actuator movable range] [Actuator operation area (lock and release)] (Side view) (Top view) Insert the FPC into the connector opening horizontally to the board plane. Insert it properly to the very end. Actuator [Caution] -Insert the FPC with the actuator opened. Aotational axis -Twisting the FPC to up and down, right and left or an angle could cause contact Apply load to the mid-point of the actuator. deformation and contact failure. Actuator close FPC (How to unlock) Slowly flip up the actuator to release the lock and remove the FPC. [Caution] PCB -The actuator is opened up to the movable limit, 90 degree. Proper FPC insertion Improper FPC insertion Do not open the actuator beyond the specified degree or apply excess force to the actuator. 3. FPC insertion check (for using contacts on the top. for FPC pattern only applicable to FH35) -To open the actuator, operate at the mid-point of the actuator. Do not lift up the side end of the actuator, or it may twist Improper assembly modes are prevented by visual check, comparing positions the actuator and cause breakage.

of housing opening end line and FPC pattern line.



- -Please note that the connector is back flip style connector, and the opening for FPC insertion and the actuator face the opposite direction. Do not try to lift the actuator at the FPC insertion opening side.
- -Do not press down the actuator toward connector when operating. Otherwise it could deform the contact.



ĸs	DRAWING NO.	EDC3-338903-01			
	PART NO.	FH35C-**S-0.3SHWC	50)		
		CODE NO.	CL580	4	5
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This connector features small, thin and back flip design, requiring delicate and careful handling. Read through the instructions shown below and handle the connector properly.

6. How to FPC routing

Do not apply load to FPC when locating FPC.

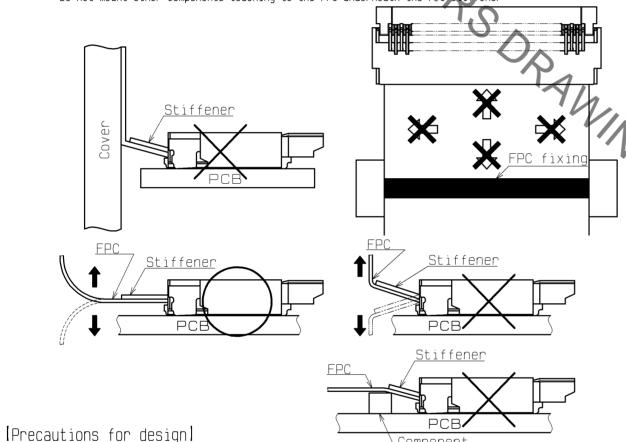
It leads to the disconnection break or damage of FPC.

In addition, there is possibillity to make a conduction failure if applying load to connector.

[Prohibited acts]

- -Please design FPC routing so that FPC stiffener will not interfere with cover case.
- -When fixing FPC avoid appplying forces to FPC in vertical or horizontal directions. In addition, avoid pulling up and down on the FPC.
- -When fixing FPC after FPC cabling avoid pulling FPC and route the wire FPC with slack. In this regard, the stiffener is parallel to the PCB.

-Do not mount other components touching to the FPC underneath the FPC stiffener-



1. During FPC wiring pensure that stress is not applied directly to the connector. Do not bend the FPC excessively near the connector during use or it may cause contact failure or FPC breakage. Stabilizing the FPC is recommended.

2. Keep a sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC insertion.

Appropriate FPC length and component layout are recommended for assembly ease Too short FPC length makes assembly difficult.

- 3. Follow the recommended PCB layout, FPC design and the stencil opening design.
- 4. Make adjustments with the FPC manufacturer for FPC bending performance and wire breakage.
- 5. Keep spaces for the actuator movement and its operation for PCB design and component layout.

Instructions for mounting on the PCB1

♦Warp of PCB

Minimize warp of the PCB as much as possible. Lead co-planarity including reinforced metal fittings is 0.1 mm or less. Too much warp of the PCB may result in a soldering failure.

♦Flexible board design

Please make sure to put a stiffener on the backside of the flexible board. We recommend a glass epoxy material with the thickness of 0.3mm MIN.

♦Load to Connector

Do not add 0.5N or greater external force when unreel or pick and place the connector etc. or it may get broken.

In addition, do not insert the FPC or operate the connector before mounting.

♦Reflow temperature profile

Apply reflow temperature profile within the specified conditions. In individual applications, the actual temperature may vary, depending on solder paste type volume/thickness and PCB size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations.

ITNSTRUCTIONS FOR PCR HANDLING AFTER MOUNTING THE CONNECTOR!

♦Load to PCB

·Splitting a large PCB into several pieces

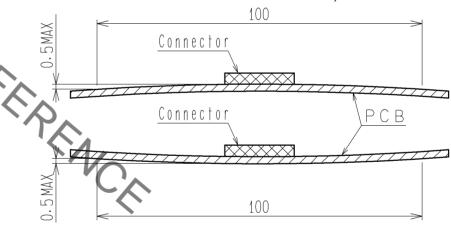
Screwing the PCB

Avoid the handling described above so that no force is exerted on the PCB during the assembly process. Otherwise, the connector may become defective.

♦Amount of Warp

The warp of a 100mm wide PCB should be 0.5 mm or less.

The warp of PCB suffers stress on connector and the connector may become defective.



Other instructions

Follow the instructions shown below when soldering the connector manually during repair work, etc.

- 1. Do not perform manual soldering with the FPC inserted into the connector.
- 2. Do not heat the connector excessively. Be very careful not to let the soldering iron contact any parts other than connector leads. Otherwise, the connector may be deformed or melt.
- 3. Do not supply excessive solder (or flux).

 If excessive solder (or flux) is supplied on the terminals, solder or flux may adhere to the contacts or rotating parts of the actuator, resulting in poor contact or a rotation failure of the actuator. Supplying excessive solder to the metal fittings may hinder actuator rotation. resulting in breakage of the connector.

ĸs	DRAWING NO.	EDC3-338903-01			
	PART NO.	FH35C-**S-0.3SHW(50)		
		CODE NO.	CL580	4	6

FORM HC0011-5-8

Component