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		NUMBER OF CONTACTS	DIMENSION OF CONNECTOR, FPC, PCB MOUNTING PATTERN AND STENCIL				DIMENSION OF DRAWING FOR PACKING						
PART NUMBER	CODE NOMBER		А	В	С	D	E	F	G	Н	J	К	L
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	21.4
FH35C-11S-0.3SHW(50)	CL580-2917-4-50	11	4.9	2.4	3.0	3.63	4. 33	3.6	16	-	7.5	17.4	21.4
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	21.4
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	21.4
FH35C-17S-0.3SHW(50)	CL580-2916-1-50	47	6.7	4.2	4.8	5.43	6.13	5.4	16	_	7.5	17.4	21.4
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	21.4
FH35C-21S-0.3SHW(50)	CL580-2922-4-50	21 5	7.9	5.4	6.0	6.63	7.33	6.6	24		11.5	25.4	29.4
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	29.4
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	29.4
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	29.4
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	29.4
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	29.4
FH35C-35S-0,3SHW(50)	CL580-2926-5-50	35	12.1	9.6	10.2	10.83	11.53	10.8	24	_	11.5	25.4	29.4
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	29.4
FH35C-39S-0.3SHW(50)	CL580-2915-9-50	39	13.3	10.8	11.4	12.03	12.73	12.0	24		11.5	25.4	29.4
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	29.4
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	29. 4
FH35C-49S-0,3SHW(50)	CL580-2927-8-50	49	16.3	13.8	14.4	15.03	15.79	15.0	32	28.4	14.2	33.4	37.4
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	37.4
▲ 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	37.4
▲ 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	37.4

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			F				
RS	DRAWING NO.	EDC3-338903-01					
	PART NO.	FH35C-**S-0.3SHW(50)					
	CODE NO.	CL580 $4 6$					
	7	8					

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В

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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







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Stiffener

PCB

# [Precautions for design]

- 1. During FPC wiring , ensure 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.

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. 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. 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. R 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. ·Splitting a large PCB into several pieces ·Screwing the PCB C Avoid the handling described above so that no force is exerted on the PCB during the assembly process. Otherwise, the connector may become defective. 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. 100 5 MAX Connector D Connector РСВ 100 F 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. DRAWING EDC3-338903-01 N0. RS PART FH35C-\*\*S-0.3SHW(50) CODE 4 6 6CL580 NO.

♦ load to Connector

1. Do not perform manual soldering with the FPC inserted into the connector.

[Instructions for mounting on the PCB] ♦Warp of PCB ♦Flexible board design ♦Reflow temperature profile INSTRUCTIONS FOR PCB HANDIING AFTER MOUNTING THE CONNECTOR! ♦Load to PCB ♦Amount of Warp Op Follow the instructions shown below when soldering the connector manually during repair work, etc. 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



Other instructions

♦Instructions on manual soldering



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