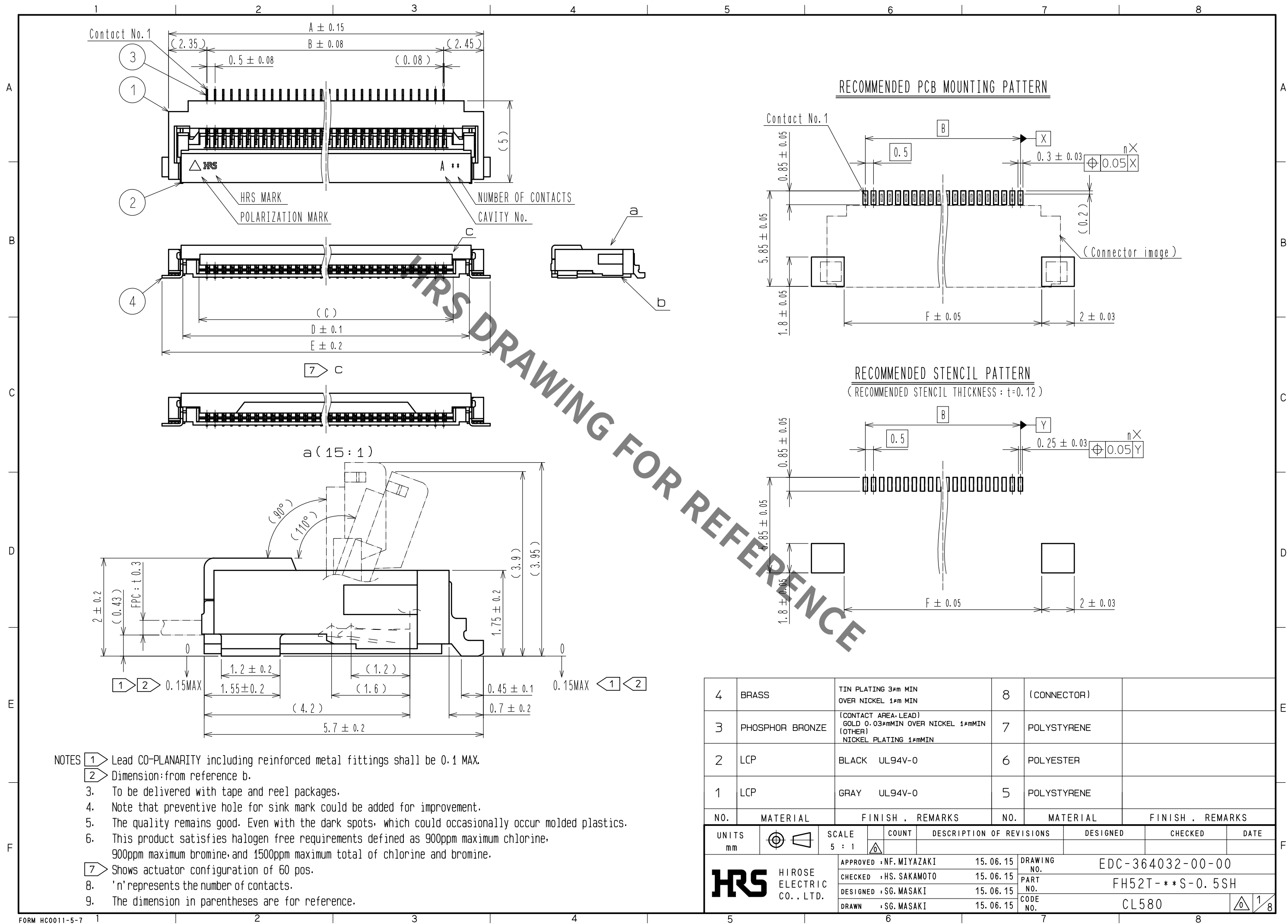
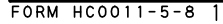


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REEL DIMENSIONS(No Scale)

A



D



- <DRAWING FOR PACKING>

FORM HC0011-5-8 1	2	3	4	5	6	7	8
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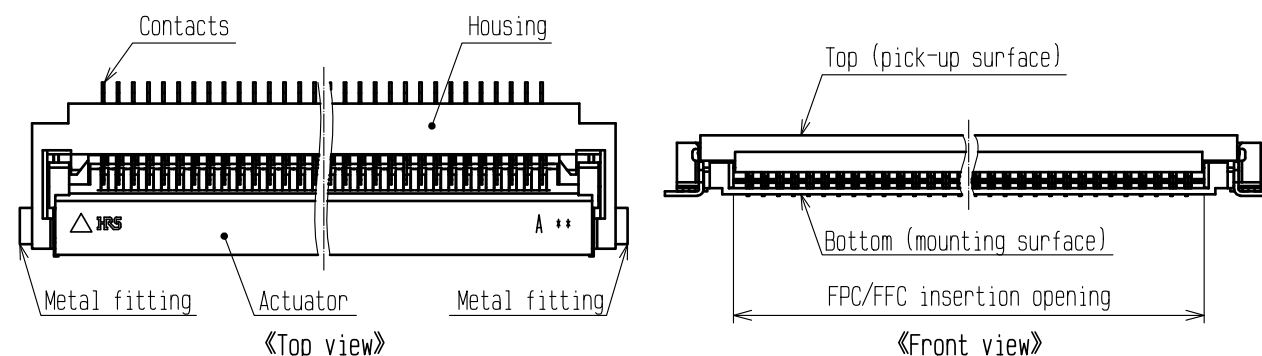
PART NO.	CODE NO.	NUMBER OF CONTACT	DIMENSION OF CONNECTOR, PCB MOUNTING PATTERN, STENCIL PATTERN AND FFC/FPC								DIMENSION OF DRAWING FOR PACKING						
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
FH52T-4S-0.5SH		4	6.3	1.5	2.57	4.55	7.1	4.1	4.1	2.5	6.6	7.6	7.5	16.0	—	21.4	17.4
FH52T-5S-0.5SH		5	6.8	2.0	3.07	5.05	7.6	4.6	4.6	3.0	7.1	8.1	11.5	24.0	—	29.4	25.4
FH52T-6S-0.5SH		6	7.3	2.5	3.57	5.55	8.1	5.1	5.1	3.5	7.6	8.6	11.5	24.0	—	29.4	25.4
FH52T-8S-0.5SH		8	8.3	3.5	4.57	6.55	9.1	6.1	6.1	4.5	8.6	9.6	11.5	24.0	—	29.4	25.4
FH52T-10S-0.5SH		10	9.3	4.5	5.57	7.55	10.1	7.1	7.1	5.5	9.6	10.6	11.5	24.0	—	29.4	25.4
FH52T-11S-0.5SH		11	9.8	5.0	6.07	8.05	10.6	7.6	7.6	6.0	10.1	11.1	11.5	24.0	—	29.4	25.4
FH52T-12S-0.5SH		12	10.3	5.5	6.57	8.55	11.1	8.1	8.1	6.5	10.6	11.6	11.5	24.0	—	29.4	25.4
FH52T-15S-0.5SH		15	11.8	7.0	8.07	10.05	12.6	9.6	9.6	8.0	12.1	13.1	11.5	24.0	—	29.4	25.4
FH52T-16S-0.5SH		16	12.3	7.5	8.57	10.55	13.1	10.1	10.1	8.5	12.6	13.6	11.5	24.0	—	29.4	25.4
FH52T-18S-0.5SH		18	13.3	8.5	9.57	11.55	14.1	11.1	11.1	9.5	13.6	14.6	11.5	24.0	—	29.4	25.4
FH52T-20S-0.5SH		20	14.3	9.5	10.57	12.55	15.1	12.1	12.1	10.5	14.6	15.6	11.5	24.0	—	29.4	25.4
FH52T-22S-0.5SH		22	15.3	10.5	11.57	13.55	16.1	13.1	13.1	11.5	15.6	16.6	14.2	32.0	28.4	37.4	33.4
FH52T-24S-0.5SH	CL580-4500-0-00	24	16.3	11.5	12.57	14.55	17.1	14.1	14.1	12.5	16.6	17.6	14.2	32.0	28.4	37.4	33.4
FH52T-25S-0.5SH		25	16.8	12.0	13.07	15.05	17.6	14.6	14.6	13.0	17.1	18.1	14.2	32.0	28.4	37.4	33.4
FH52T-26S-0.5SH		26	17.3	12.5	13.57	15.55	18.1	15.1	15.1	13.5	17.6	18.6	14.2	32.0	28.4	37.4	33.4
FH52T-28S-0.5SH		28	18.3	13.5	14.57	16.55	19.1	16.1	16.1	14.5	18.6	19.6	14.2	32.0	28.4	37.4	33.4
FH52T-30S-0.5SH		30	19.3	14.5	15.57	17.55	20.1	17.1	17.1	15.5	19.6	20.6	20.2	44.0	40.4	49.4	45.4
FH52T-32S-0.5SH	CL580-4502-0-00	32	20.3	15.5	16.57	18.55	21.1	18.1	18.1	16.5	20.6	21.6	20.2	44.0	40.4	49.4	45.4
FH52T-40S-0.5SH		40	24.3	19.5	20.57	22.55	25.1	22.1	22.1	20.5	24.6	25.6	20.2	44.0	40.4	49.4	45.4
FH52T-42S-0.5SH		42	25.3	20.5	21.57	23.55	26.1	23.1	23.1	21.5	25.6	26.6	20.2	44.0	40.4	49.4	45.4
FH52T-45S-0.5SH		45	26.8	22.0	23.07	25.05	27.6	24.6	24.6	23.0	27.1	28.1	20.2	44.0	40.4	49.4	45.4
FH52T-50S-0.5SH	CL580-4501-7-00	50	29.3	24.5	25.57	27.55	30.1	27.1	27.1	25.5	29.6	30.6	20.2	44.0	40.4	49.4	45.4
FH52T-60S-0.5SH		60	34.3	29.5	30.57	32.55	35.1	32.1	32.1	30.5	34.6	35.6	26.2	56.0	52.4	61.4	57.4
FH52T-64S-0.5SH		64	36.3	31.5	32.57	34.55	37.1	34.1	34.1	32.5	36.6	37.6	26.2	56.0	52.4	61.4	57.4
FH52T-68S-0.5SH		68	38.3	33.5	34.57	36.55	39.1	36.1	36.1	34.5	38.6	39.6	26.2	56.0	52.4	61.4	57.4

※CONTACT POSITIONS WITHOUT CODE NUMBERS ARE CURRENTLY UNDER PLANNING.
PLEASE CONTACT HIROSE FOR DETAILED INFORMATION ABOUT PRODUCT VARIATION.

HRS	DRAWING NO.	EDC-364032-00-00	
	PART NO.	FH52T-**-0.5SH	
	CODE NO.	CL580	4 8

This connector requires delicate and careful handling.
Read through the instructions shown below and handle the connector properly.
Each values indicating here are for reference and may differ from standard value.

[Connector Part Nomenclature]



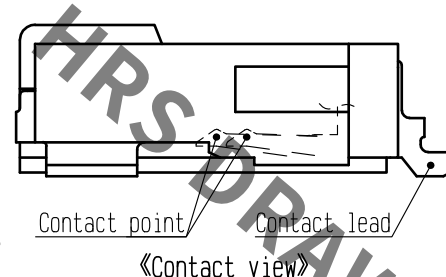
[Operation and Precautions]

1. Initial condition

The connector is delivered with the actuator closed.

[Caution]

-Do not insert FPC/FFC or operate actuator before mounting.



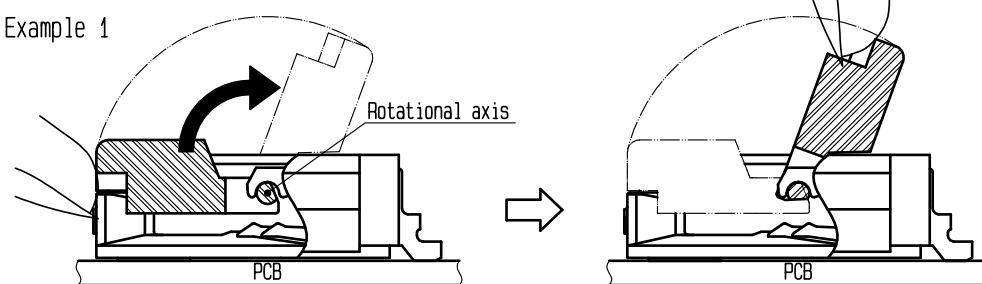
2. How to unlock (Before inserting FPC/FFC)

The actuator rotates on its axis as shown below.
Slowly flip up the actuator to release the lock.

[Caution]

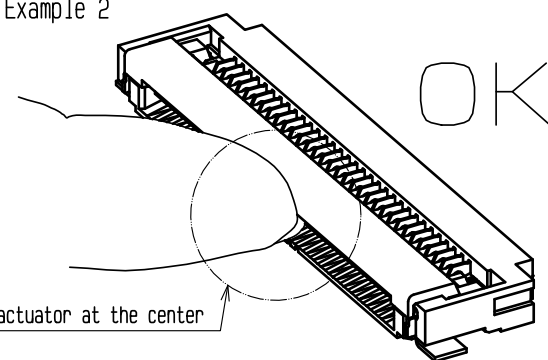
- Open the actuator by carefully lifting it at the center.
- Do not lift the actuator at one end only.
- The actuator must be operated by hand only, and do not insert any tools or fingernails inside the connector.
- The actuator rotates 110 degrees max.
- Do not attempt to force the actuator to backside further.
- When operating the actuator do not apply any force in the direction of the connector. (example 6.7)
- Do not attempt to dislodge the actuator.

Example 1



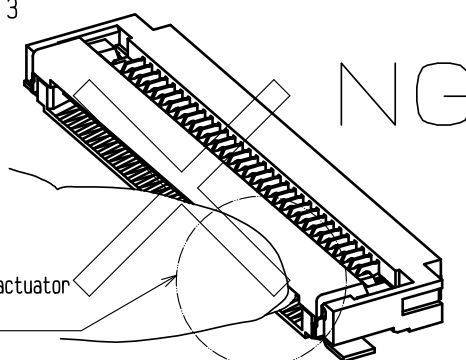
- Correct operation -

Example 2



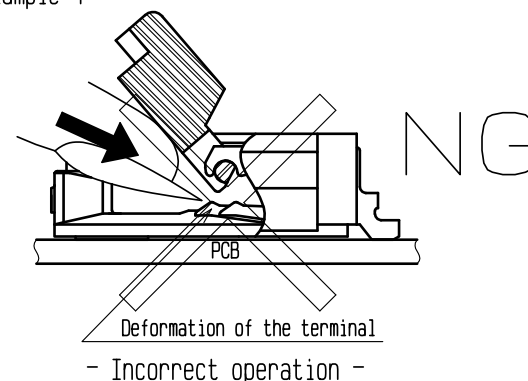
- Correct operation -

Example 3

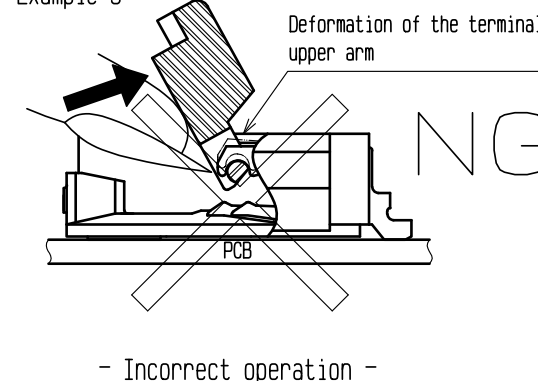


- Incorrect operation -

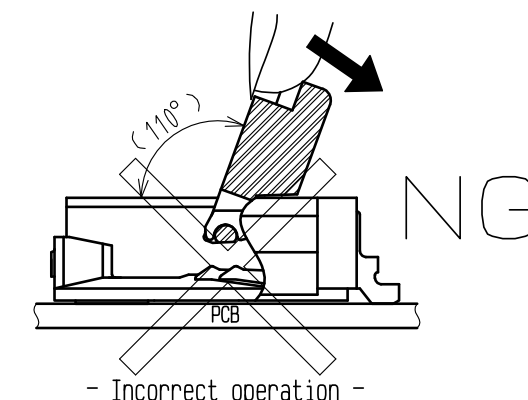
Example 4



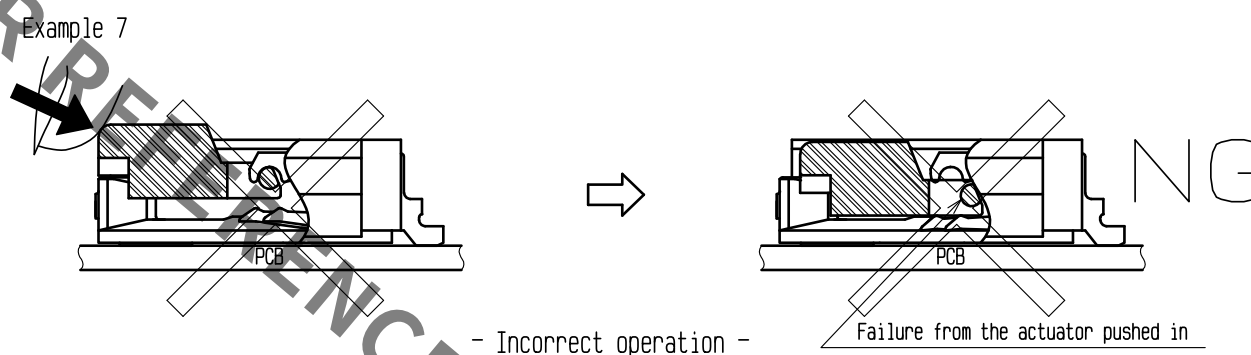
Example 5



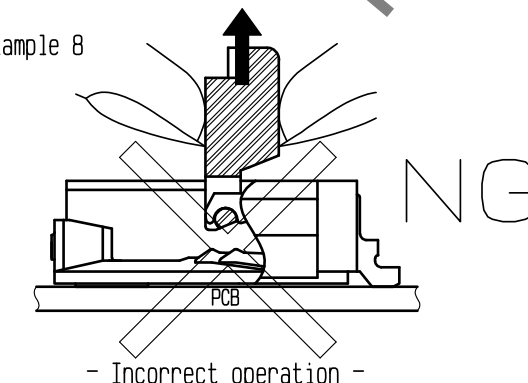
Example 6



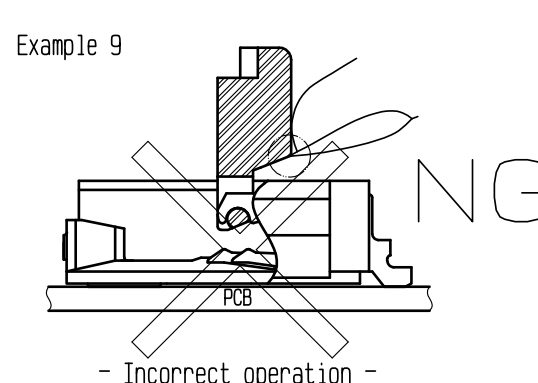
Example 7



Example 8



Example 9



<INSTRUCTION MANUAL(1)>

HRS

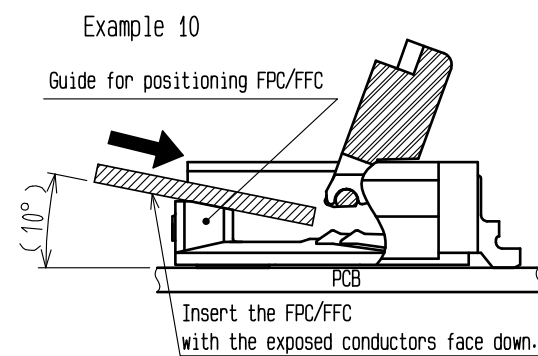
DRAWING NO.	EDC-364032-00-00
PART NO.	FH52T-**-0.5SH
CODE NO.	CL580

3. How to insert FPC/FFC

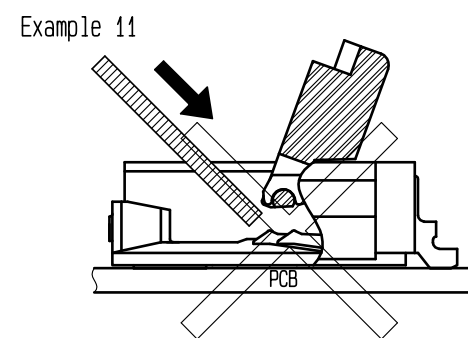
This connector has contacts on the bottom, insert the FPC/FFC with the exposed conductors face down.
This connector has Guide for positioning FPC/FFC, insert the FPC at about 10 degree angle to the PCB mounting surface.
In case of using FPC/FFC without tabs, insert the FPC/FFC horizontally along the surface.

[Caution]

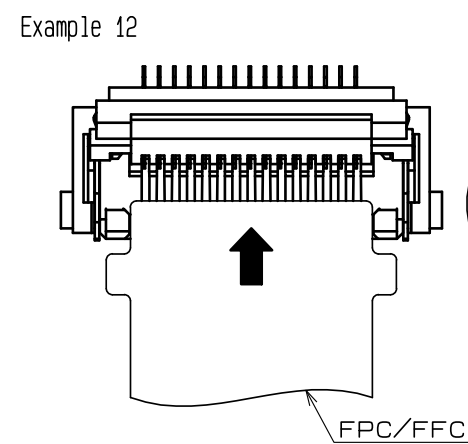
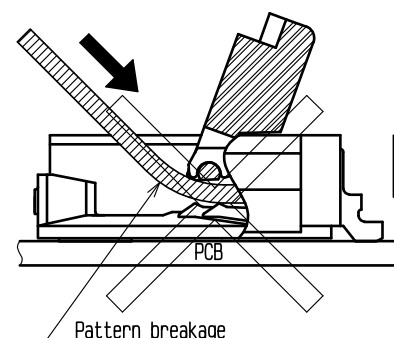
- Do not insert the FPC/FFC with the conductor surface face up.
- Insert the FPC/FFC properly to the very end.
- Insert the FPC/FFC with the actuator opened.
- Do not insert the FPC/FFC at an angle.
- Do not twist the FPC/FFC to up and down, right and left or an angle.



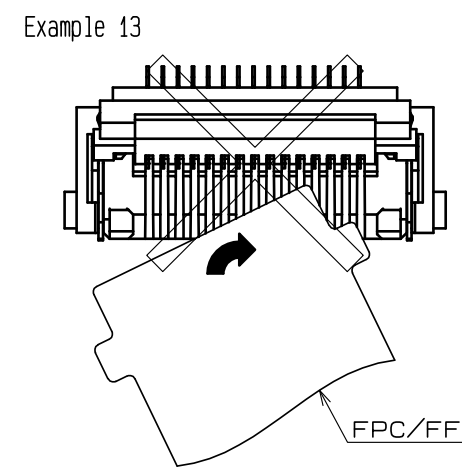
- Correct operation -



- Incorrect operation -



- Correct operation -



- Incorrect operation -

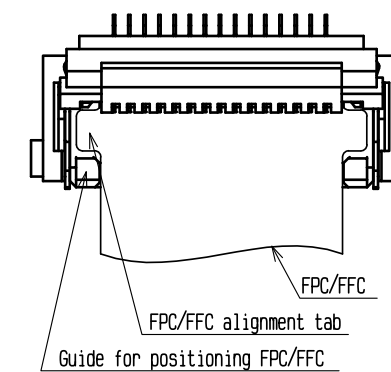
4. FPC/FFC insertion check

Guide for positioning FPC/FFC guide the FPC/FFC tabs to the correct position.
Make sure that the FPC/FFC tabs are located in correct position as shown in the figure below after FPC/FFC insertion.

[Caution]

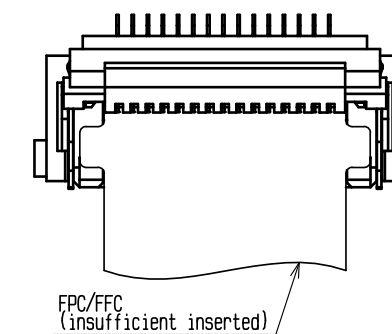
- Do not insert the FPC/FFC at an angle and/or stop it before insertion is completed.

Example 14



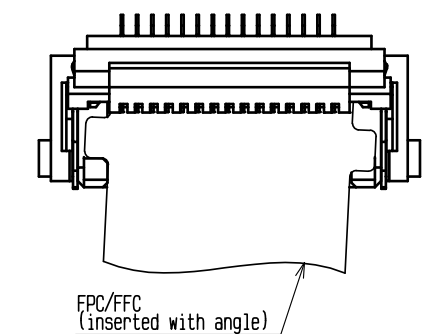
- Correct operation -

Example 15

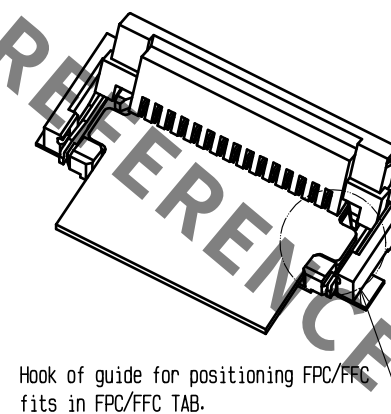


- Incorrect operation -

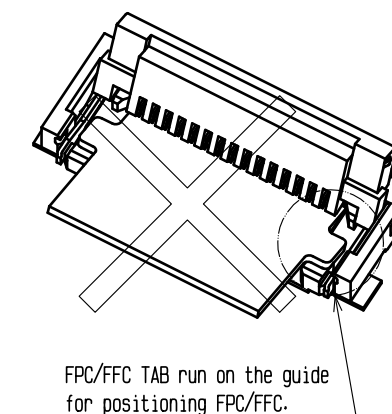
Example 16



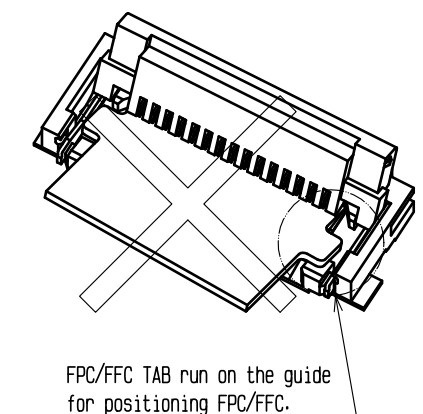
- Incorrect operation -



OK



NG



NG

<INSTRUCTION MANUAL(2)>

HRS	DRAWING NO.	EDC-364032-00-00
	PART NO.	FH52T-**-0.5SH
	CODE NO.	CL580
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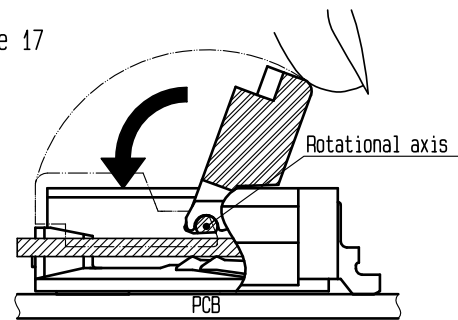
5. How to lock

The actuator rotates on its axis as shown below.
Apply load to rotate the actuator after inserting the FPC/FFC.

[Caution]

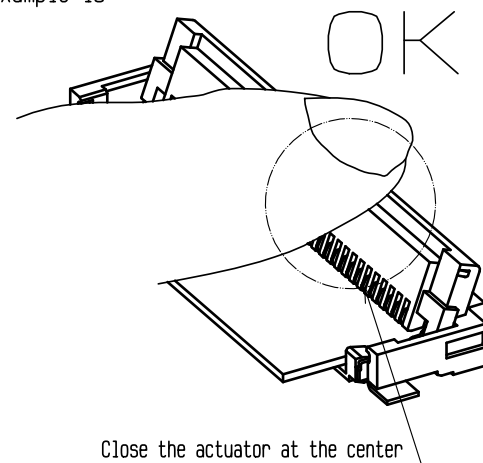
- Close the actuator by carefully operating it at the center.
- Do not operate the actuator at one end only.
- The actuator must be operated by hand only,
and do not insert any tools or fingernails inside the connector.
- Do not attempt to force the actuator to backside further.
- When operating the actuator do not apply any force in the direction of the connector.
- Do not attempt to dislodge the actuator.
- Confirm that the actuator completely closed and is parallel to the PCB mounting surface.

Example 17



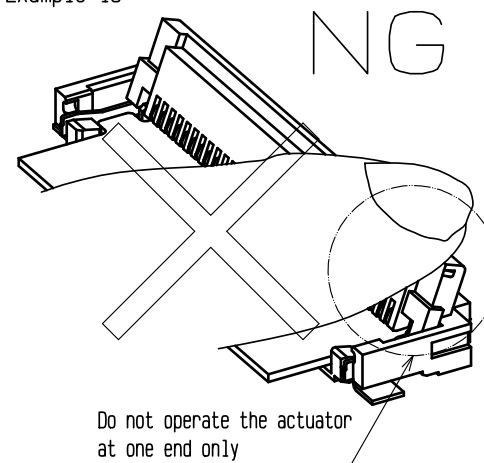
- Correct operation -

Example 18



- Correct operation -

Example 19



- Incorrect operation -

6. Mating confirmation of the FPC/FFC

In the locked condition, make sure that the actuator is horizontal on the board surface.
Do not apply excessive force to it near the 0° position of the actuator.
Otherwise, the terminals may be deformed.

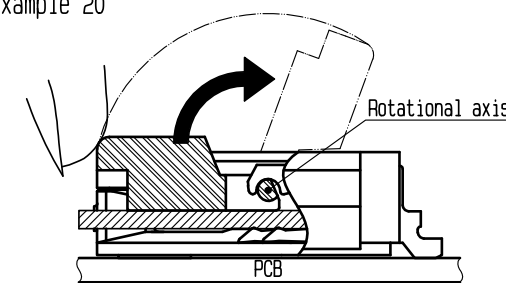
7. How to unlock

Slowly flip up the actuator to release the lock.

[Caution]

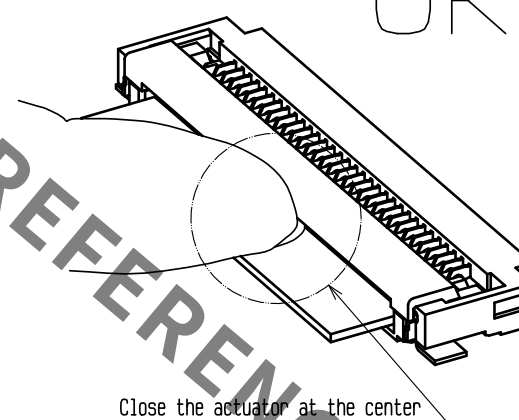
- Open the actuator by carefully lifting it at the center.
- Do not lift the actuator at one end only.
- The actuator must be operated by hand only,
and do not insert any tools or fingernails inside the connector.
- The actuator rotates 110 degrees max.
Do not attempt to force the actuator to backside further.
- When operating the actuator do not apply any force in the direction of the connector.
- Do not attempt to dislodge the actuator.

Example 20



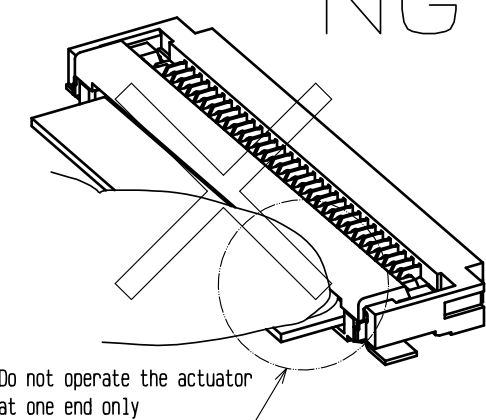
- Correct operation -

Example 21



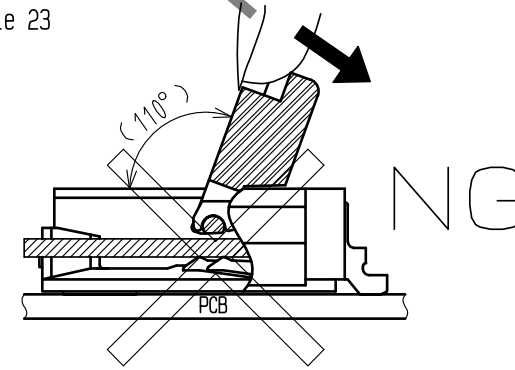
- Correct operation -

Example 22



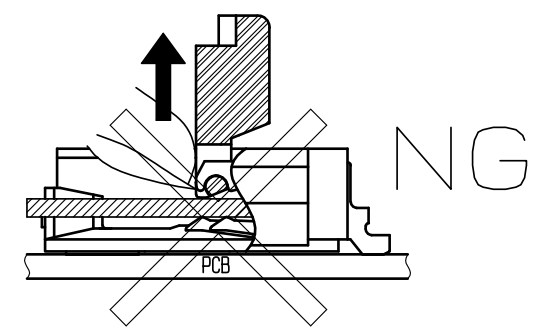
- Incorrect operation -

Example 23



- Incorrect operation -

Example 24



- Incorrect operation -

<INSTRUCTION MANUAL(3)>

HRS

DRAWING NO.	EDC-364032-00-00
PART NO.	FH52T-**-0.5SH
CODE NO.	CL580

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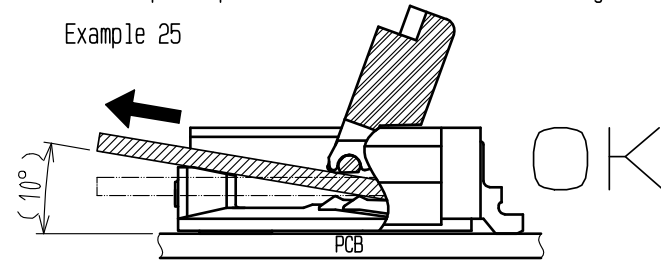
8. How to remove FPC/FFC

This connector has a temporary FPC/FFC holding structure with guide for positioning FPC/FFC.
After rotating the actuator to the fully opened position carefully withdraw the FPC/FFC
pulling out at about 10 degree angle to the PCB mounting surface.
In case of using FPC/FFC without tabs, pull out the FPC/FFC horizontally along the surface.

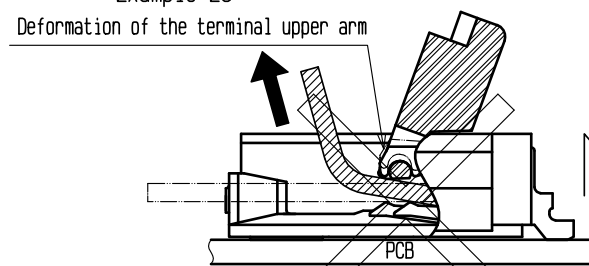
[Caution]

- For FPC/FFC removal, do not pull out the FPC/FFC horizontally.
- Do not withdraw the FPC/FFC at an angle.
- Do not attempt to pull the FPC/FFC without unlocking the actuator.

Example 25

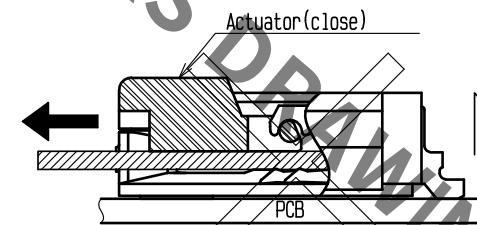


Example 26



- Incorrect operation -

Example 27



- Incorrect operation -

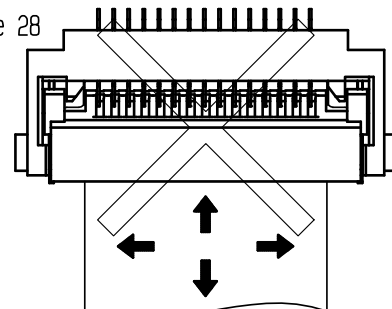
[Precautions for component layout]

Depending on a FPC/FFC rounding, a load is applied to the connector, and a contact failure may occur.
To prevent a failure, take the following notes into a consideration during mechanism design.

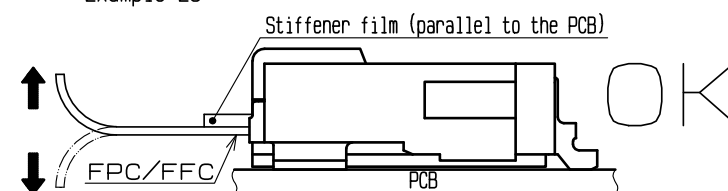
[Caution]

- Avoid applying forces to FPC/FFC in vertical or horizontal directions.
In addition, avoid pulling up and down on the FPC/FFC.
- When fixing FPC/FFC after FPC/FFC cabling, avoid pulling FPC/FFC, and route the wire FPC/FFC with slack.
In this regard, the stiffener is parallel to the PCB.
- Do not bend the FPC/FFC excessively near the connector during use, or it may cause contact failure or FPC/FFC breakage.
Fixing the FPC/FFC is recommended to prevent these failures.
- Do not mount other components touching to the FPC/FFC underneath the FPC/FFC stiffener.
- Follow the recommended FPC/FFC design.
Make adjustments with the FPC/FFC manufacturer for FPC/FFC bending performance and wire breakage.
- Keep a sufficient FPC/FFC insertion space in the stage of the layout in order to avoid incorrect FPC/FFC insertion.
Appropriate FPC/FFC length and component layout are recommended for assembly ease.
Too short FPC/FFC length makes assembly difficult.
- Keep spaces for the actuator movement and its operation for PCB design and component layout.

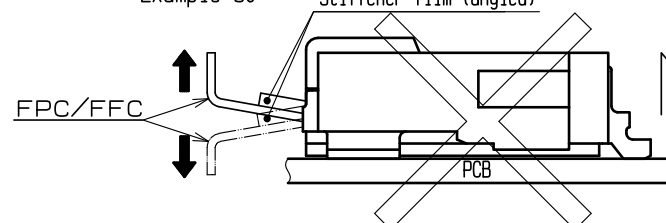
Example 28



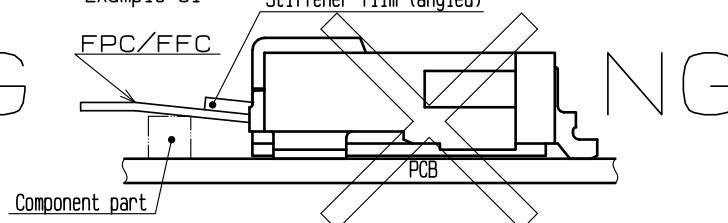
Example 29



Example 30



Example 31



[Instructions for mounting on the PCB]

Follow the instructions shown below when mounting on the PCB.

[Caution]

- Refer to recommended layouts on the page 1 for PCB and stencil pattern.
- Shorter pattern width than the recommended PCB dimension, could cause solder wicking and/or flux penetration.
- Larger pattern than the recommended stencil dimension, could cause solder wicking and/or flux penetration.
- Clearance underneath the contact and the housing is very small.
In case solder resist and/or silk screening are applied on PCB underneath the connector, verify the thickness, or it could push up the connector bottom and may cause soldering defect and/or insufficient fillet formation.
- 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.
- Prevent warpage of PCB, where possible, since it can cause soldering failure even with 0.1 mm max coplanarity.
- When mounting on the flexible board, please make sure to put a stiffener on the backside of the flexible board.
We recommend a glass epoxy material with the thickness of 0.3 mm MIN.
- Do not add 1 N or greater external force when unreel or pick and place the connector etc, or it may get broken.

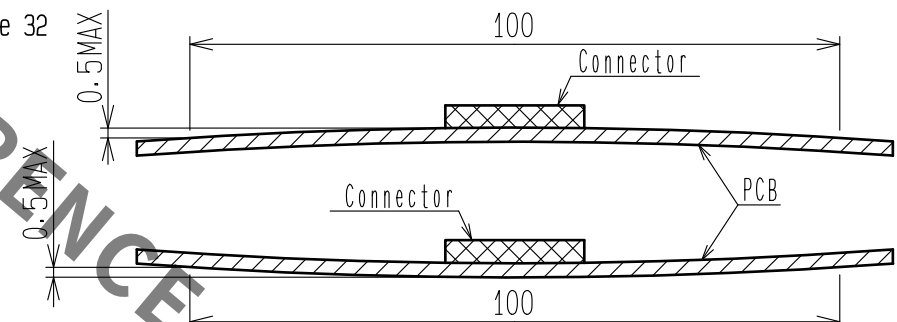
[Instructions for PCB handling after mounting the connector]

Follow the instructions shown below when mounting on the PCB.

[Caution]

- 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.
- The warp of a 100 mm wide PCB should be 0.5 mm or less.
The warp of PCB suffers stress on connector and the connector may become defective.

Example 32



[Instructions on manual soldering]

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

[Caution]

- Do not perform manual soldering with the FPC/FFC inserted into the connector.
 - 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.
 - 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.

<INSTRUCTION MANUAL(4)>

HRS	DRAWING NO.	EDC-364032-00-00
	PART NO.	FH52T-**-S-0.5SH
	CODE NO.	CL580
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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru