

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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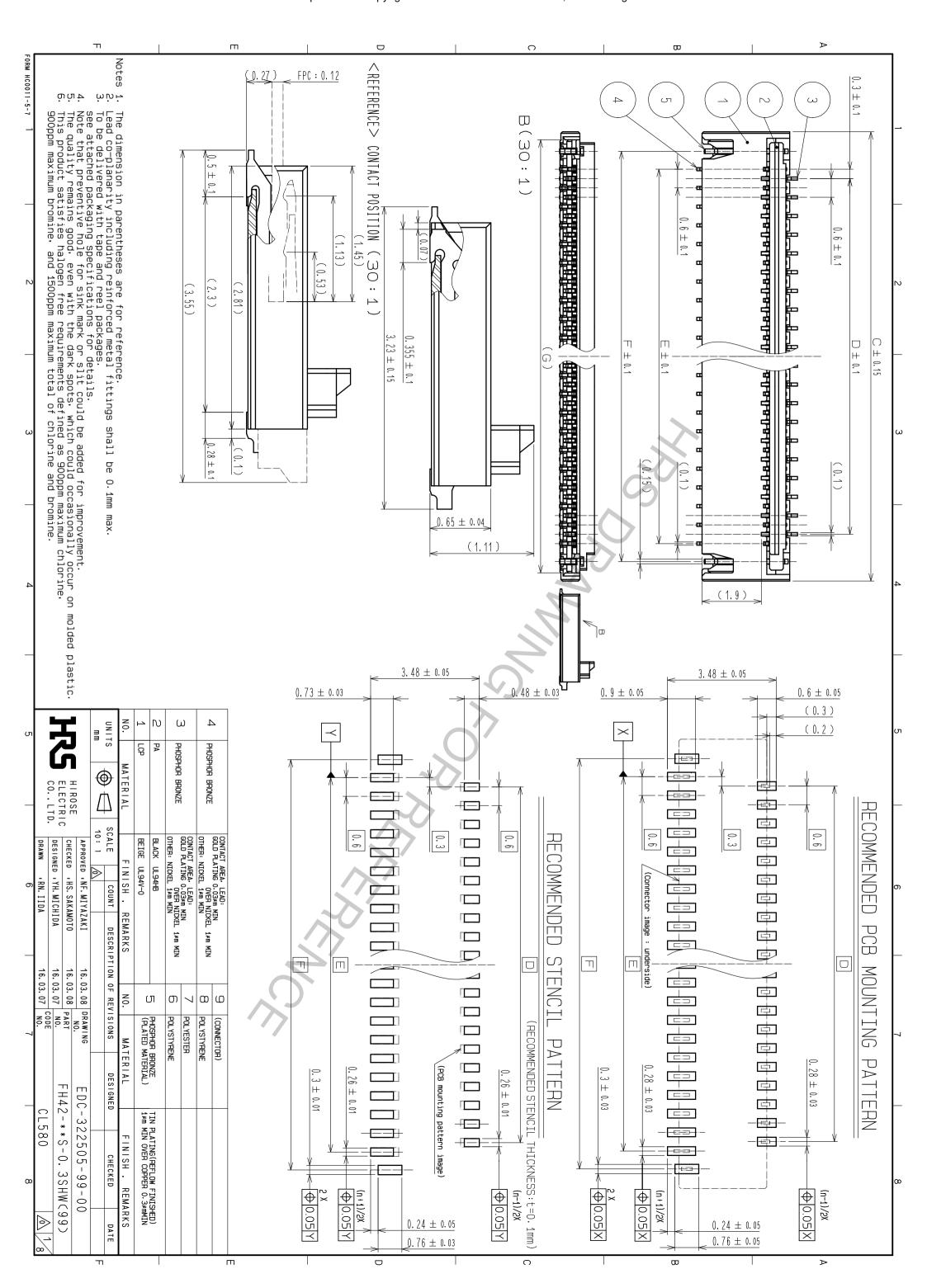
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

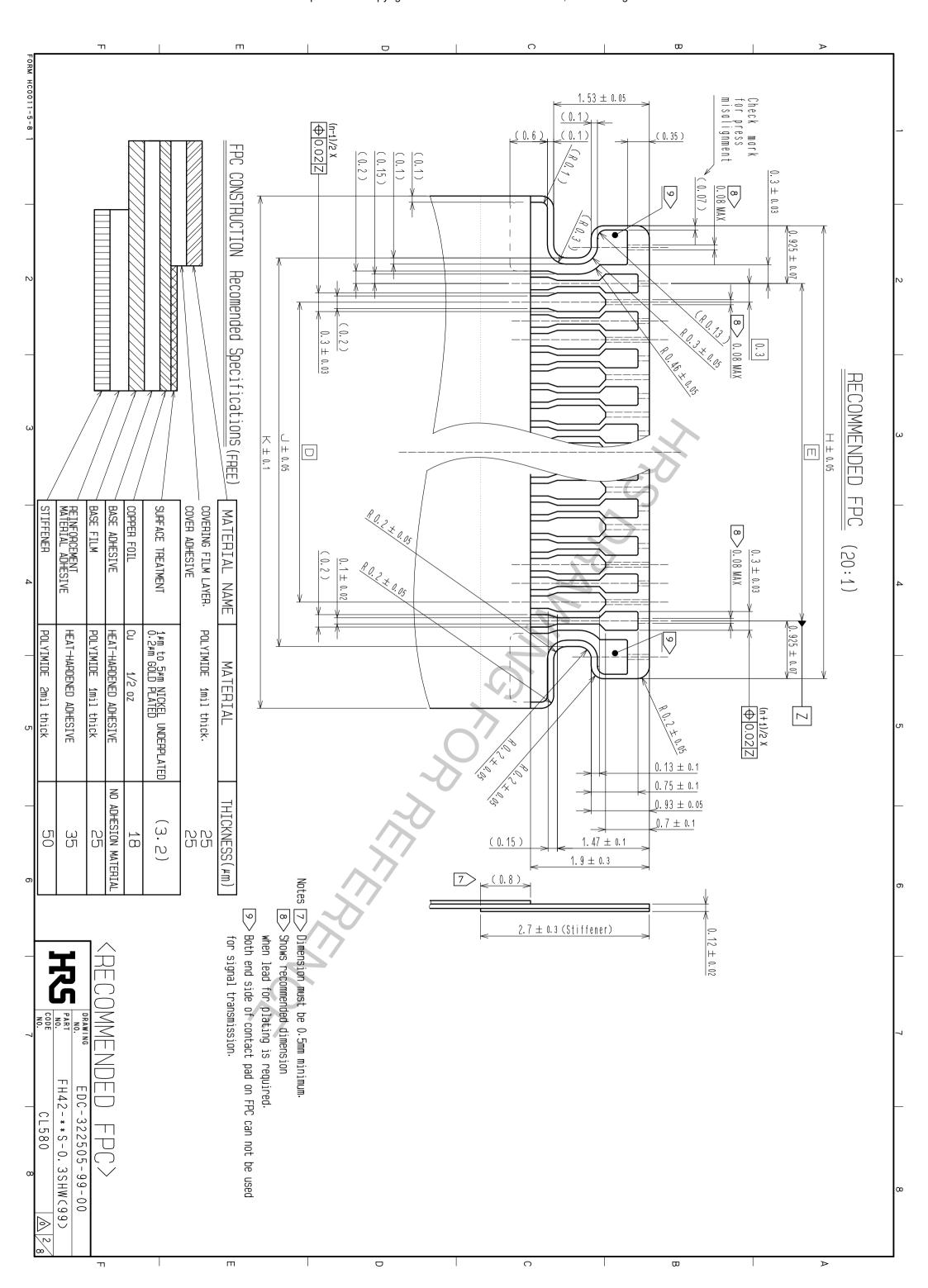
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

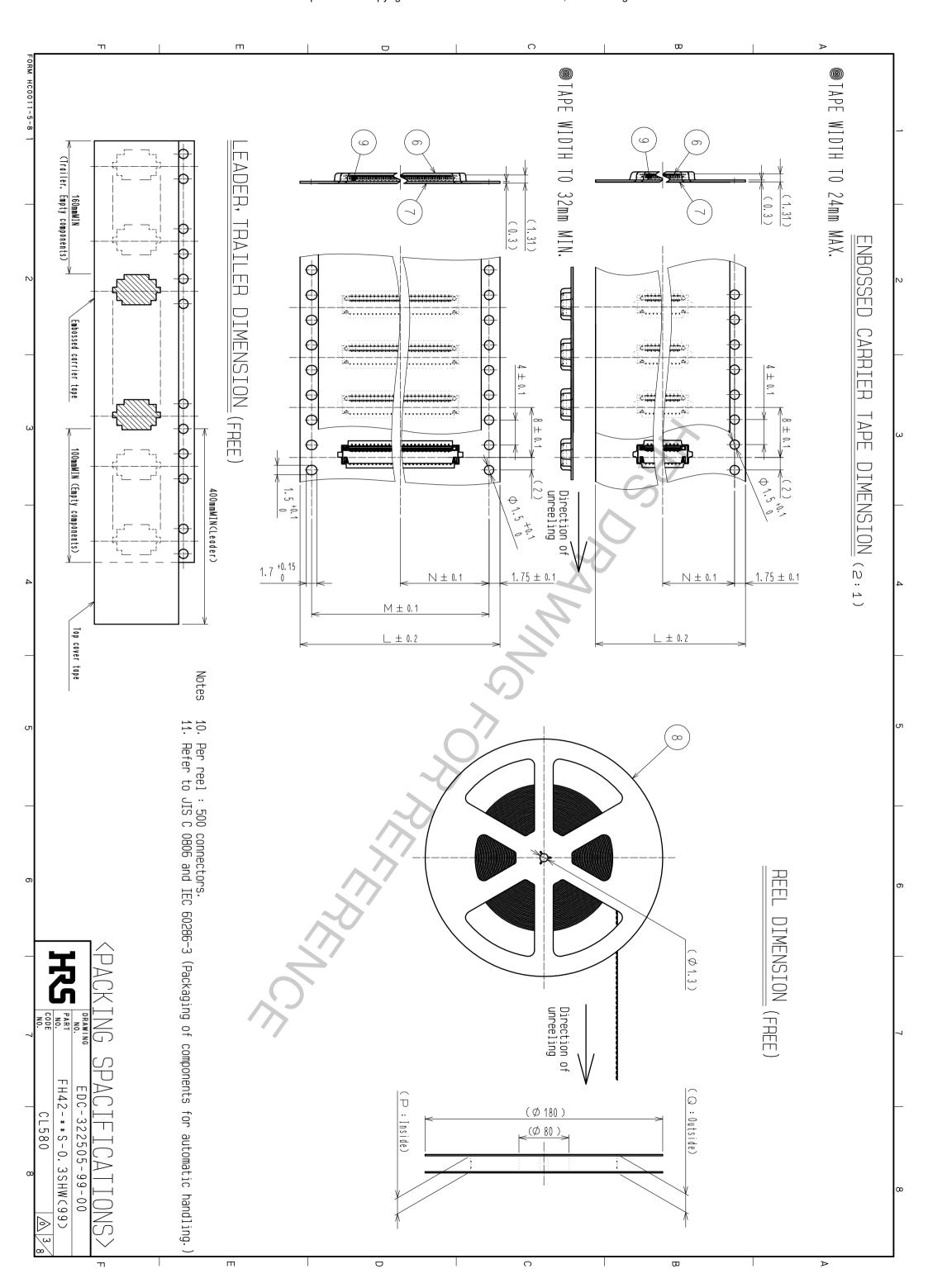




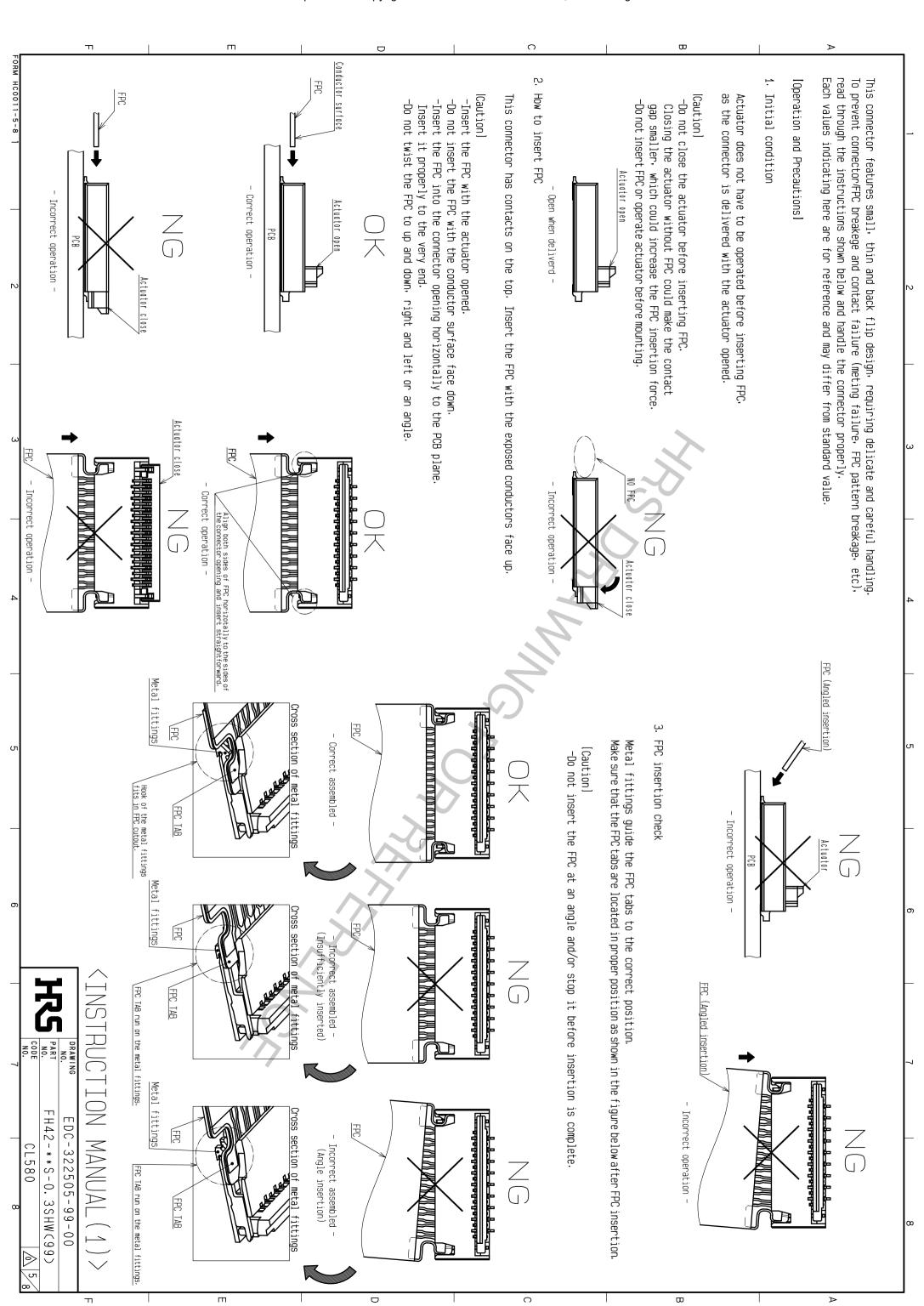


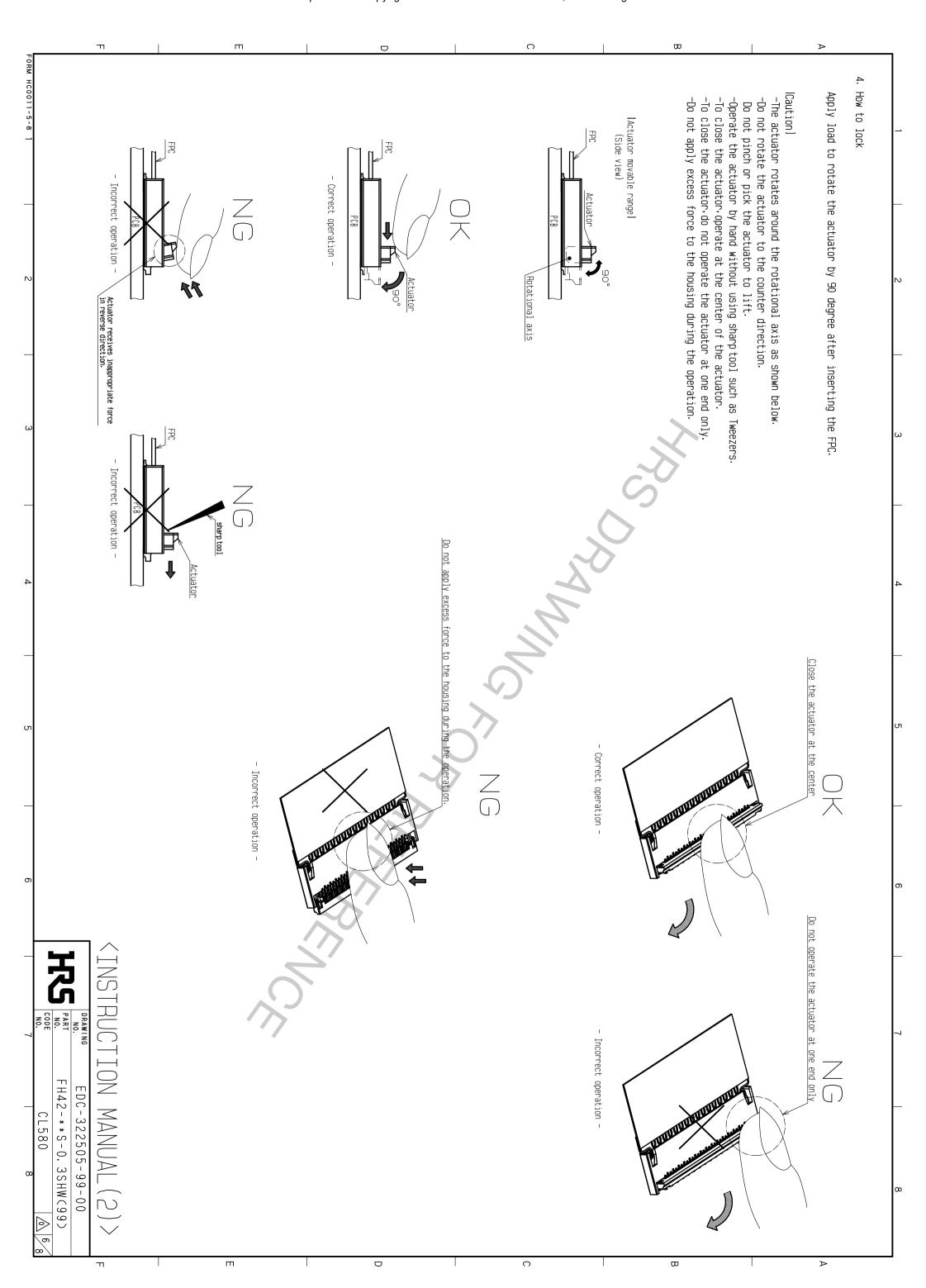


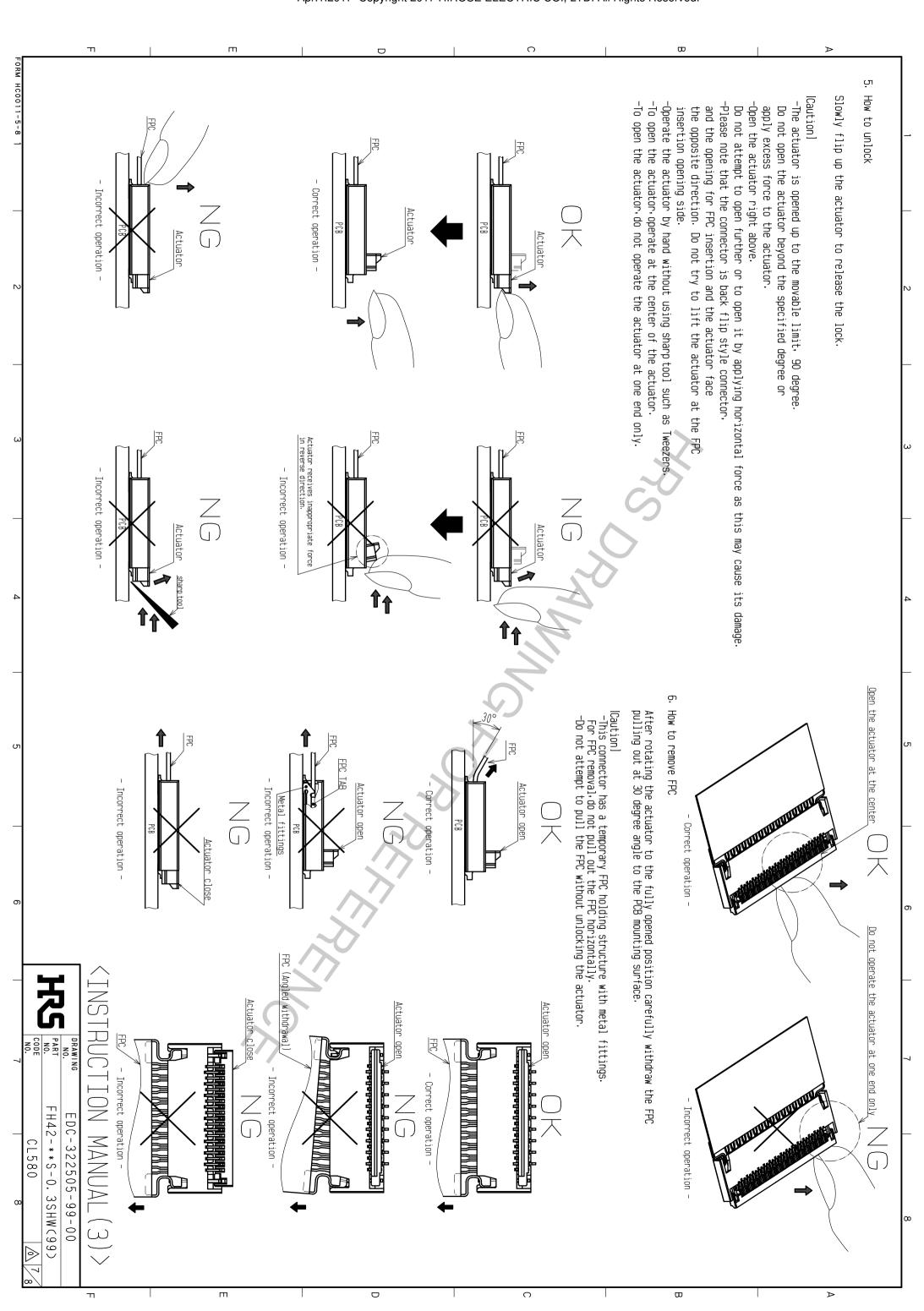




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|Precautions for design| 1. During FPC wiring ensure that stress is Do not bend the FPC excessively near the contact failure or FPC breakage. Stabilizing the FPC is recommended. not applied directly to the connector connector during use or it may cause

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 mounting pattern, stencil opening design and the FPC

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

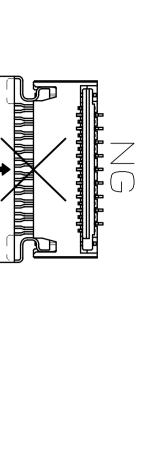
[FPC routing after connection]

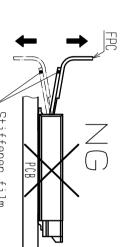
Depending on a FPC rounding a load is applied To prevent a failure take the following notes load is applied to the connector \cdot and a contact failure may occurrollowing notes into a consideration during mechanism design.

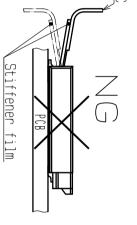
-Avoid appplying forces to FPC in vertical or horizontal derections

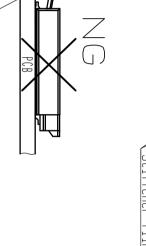
In addition avoid pulling up and down on the FPC.—When fixing FPC after FPC cabling avoid pulling FPC and route the wire FPC with slack. In this regard the stiffener is parallel to the PCB.

—Do not mount other components touching to the FPC underneath the FPC stiffener.









Stiffener film

<u>Component part</u>

<u>Stiffener film</u>

Instructions for mounting on the PCB

◆Warp of PCB
 Minimize warp of the PCB
 Lead co-planarity includi
 Too much warp of the PCB as much as possible.
ing reinforced metal fittings is 0.08 mm
may result in a soldering failure. or less.

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♦Flexible board design Please make sure to p We recommend a glass put a stiffener on the backside of the flexible boards 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.

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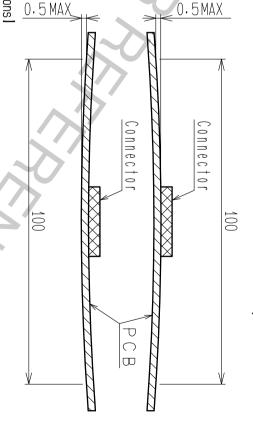
INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CON NECTOR!

♦Load to PCB
•Splitting a large PCB into several pieces
•Screwing the PCB
Avoid the handling described above so that
Otherwise• the connector may become defect

above so that no become defective. force is exerted on the PCB during the assembly process.

◆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 co connector may become defective.

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|Other instructions|

♦Instructions on manual soldering

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

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

any parts other than connector leads. Otherwise. Do not heat the connector excessively. Be very careful not to let the soldering iron contact the connector may be deformed or melt.

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Do not supply excessive solder (or flux).

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

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