

## Projected Capacitive Touch Panel with COF, Glass/Glass Structure Mounting Guidance

Projected capacitive touch panel detects the touched locations by measuring the increased amount of the capacitance value between its electrodes. Once it is built into a system, capacitance couplings are continually yielded among the touchpanel, FPC tail, controller board and metal chassis. If surrounding environment changes or materials to alter the electrical field (a large capacitor, power-supply unit, LCD panel, or materials with high dielectric constant) is near, these external factors will adversely affect the function of the touch panel to detect the correct input positions.

At structure design, please refer to the mounting guidance below and ensure enough gap distances among each component in order to avoid the external factors described above

- >Fix the touch panel firmly so that the gap distances between the touchpanel and other components will not be affected by touching or will not change with the passage of time. An unexpected input may be caused if the gap is too narrow.
- >In order to avoid the gap distance between touchpanel and LCD (L1 in the following illustrations) being changed with the passage of time, it is recommended to apply the adhesive tape onto all the 4 sides with no space (fully sealed) when gluing the touch panel.
- >Refer to the drawing of the touch panel, and take into account the tolerances at structure design.

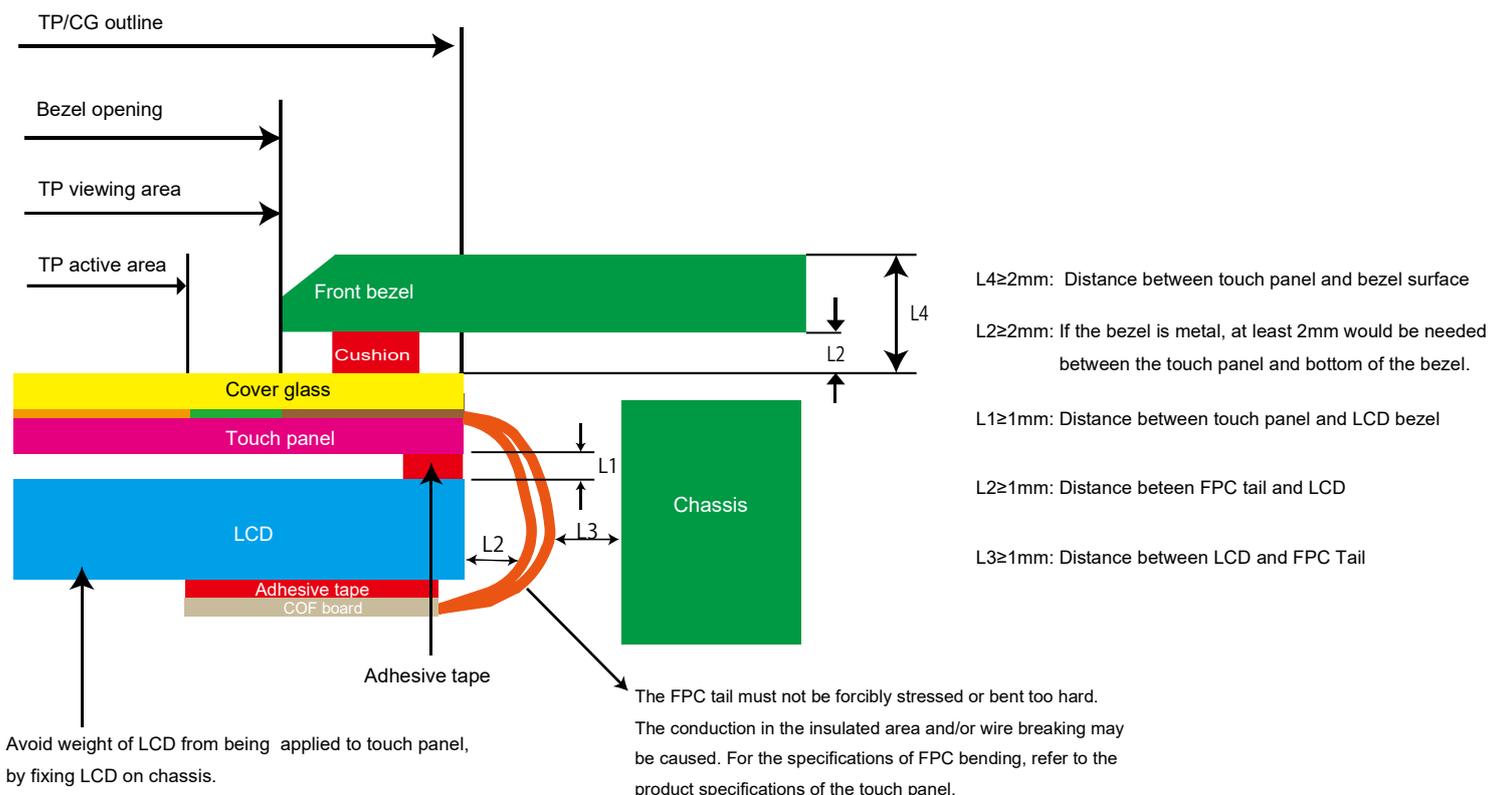
The distance values indicated in this sheet are for reference only.

The appropriate distance values depend on touch panel size, LCD, chassis design and other factors.

Please confirm the appropriate distances with the actual products prior to fixing the chassis design.

### Structure with Bezel

- >It is recommended to use an insulating resin material for the bezel. Ensure the gap between the touch panel and front bezel (L4)
- >If a metal material is used for the bezel, unintended capacitance couplings may occur on the periphery of the active area. If a metal material is used for the bezel, ensure the gap of approximately 2mm between the touch panel and bezel (L2).
- >In order to avoid the gap distance L1 from being changed with the passage of time, it is recommended to apply the adhesive tape onto all the 4 sides with no space (fully sealed) when gluing the touch panel.



Structure without Bezel (Cover glass printed with Color Frame)

