

Liquid Crystal Displays

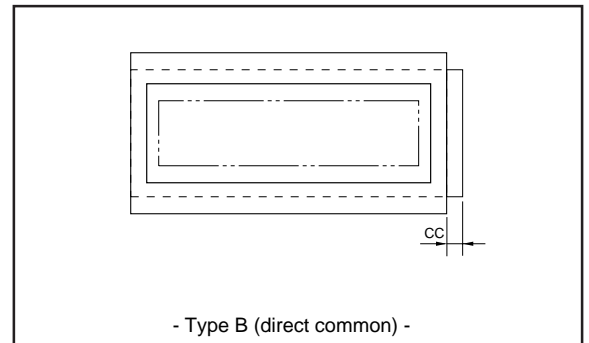
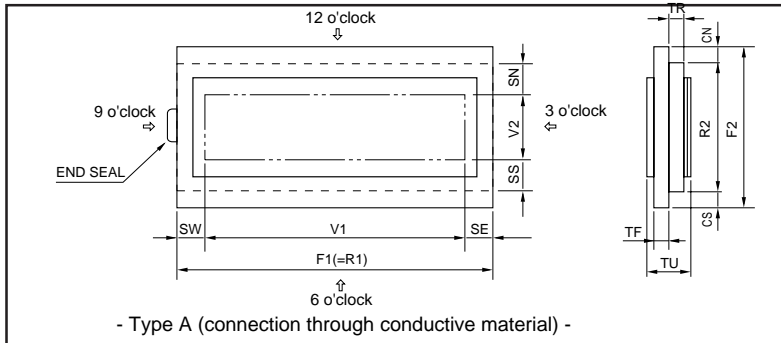
CHECK LIST FOR CUSTOM DESIGNED LCD

1. Company _____ 2. Application _____ 3. Customer Specified Part No. _____

4. Design

New Modified: Manufacturer _____, Part No. _____, Remarks _____
 Equivalent: Manufacturer _____, Part No. _____, Remarks _____

5. Panel Dimensions

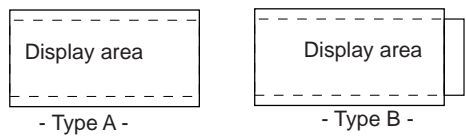


F1: Horizontal length of upper glass _____ mm
 F2: Vertical length of upper glass _____ mm
 R1: Horizontal length of lower glass _____ the same as F1
 R2*: Vertical length of lower glass _____ mm
 *R2 is generally longer than F2 when terminals are with pin.
 TF, TR**: Thickness of glass _____ mm
 ***Standard type: 1.1 mm or 0.7 mm
 TU: Thickness of LCD _____ mm
 End seal: Right Left Right or Left

V1: Horizontal length of viewing area _____ mm
 V2: Vertical length of viewing area _____ mm
 CN**: Terminal length _____ mm
 CS**: Terminal length _____ mm
 **CN or CS=0 in case of one side terminal type.
 CC: Terminal length _____ mm
 SE, SW, SN, SS: Seal width
 (According to design or manufacturing condition:
 about 2.0 mm to 4.0 mm)

6. Panel Form

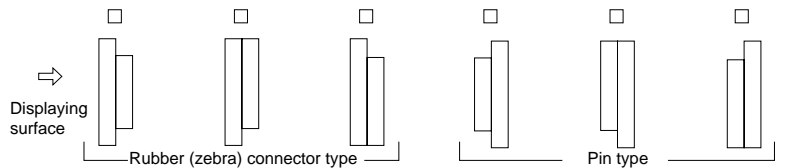
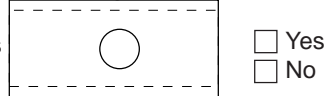
• Terminal



• Chamfering



• Drilling



7. Display Mode

Viewing angle: 6 o'clock 12 o'clock _____ o'clock
 Type: TN FSTN (Black and white)
 STN: (Yellow green Gray Blue)
 Chromaticity coordinates (_____ ≤ x ≤ _____, _____ ≤ y ≤ _____)
 Color difference (ΔE ≤ _____)
 Positive type Negative type
 Reflective Transflective Transmissive
 Background color: SII STD _____
 Preferential specifications:
 Response time t_{on} ms (_____ °C) t_{off} ms (_____ °C)
 Viewing angle _____ deg. (_____ °C) Contrast _____ (_____ °C)
 Others _____

8. Polarizer

Surface finishing: Normal Anti-glare _____
 Color: Normal (neutral gray) Red Green
 Blue _____
 Front polarizer: Attached type Separate type
 Rear polarizer: Attached type Separate type

9. Driving Method

Static Multiplexing: (1/ _____ duty, 1/ _____ bias)
 Operating voltage (V_{opr}): _____ V _____ V to _____ V
 Frame frequency: _____ Hz
 Driving IC: _____ (Manufacturer _____)
 Current consumption: _____ μ A

10. Temperature Range

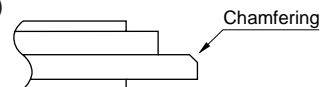
Operating temperature range
 With temperature compensation circuit (or volume)
 (0°C to 50°C _____ °C to _____ °C)
 Without temperature compensation circuit
 (0°C to 50°C _____ °C to _____ °C)
 Storage temperature range
 (- 20°C to 60°C _____ °C to _____ °C)

11. Terminal Connecting Method

Rubber connector (Zebra rubber)
 Pin: DIL SIL _____
 Pitch (2.54 _____ mm) Length (_____ mm)
 Heat seal: Equipped Unnecessary
 FPC: Equipped Unnecessary

12. Others

Print (Characters, lines, masks etc.): Yes No
 Protective film:
 Yes (Color: Red Translucent Transparent) No
 Chamfering (for heat-seal connector):
 Yes (Position: _____)
 (Quantity: _____)
 No



Marking No Yes (_____, color: _____)

13. Schedule

Estimate: _____
 Sample: Delivery _____, Quantity: _____ pcs
 Mass production: Target price: _____
 Delivery _____, Total quantity: _____ pcs
 Quantity per month: _____ pcs