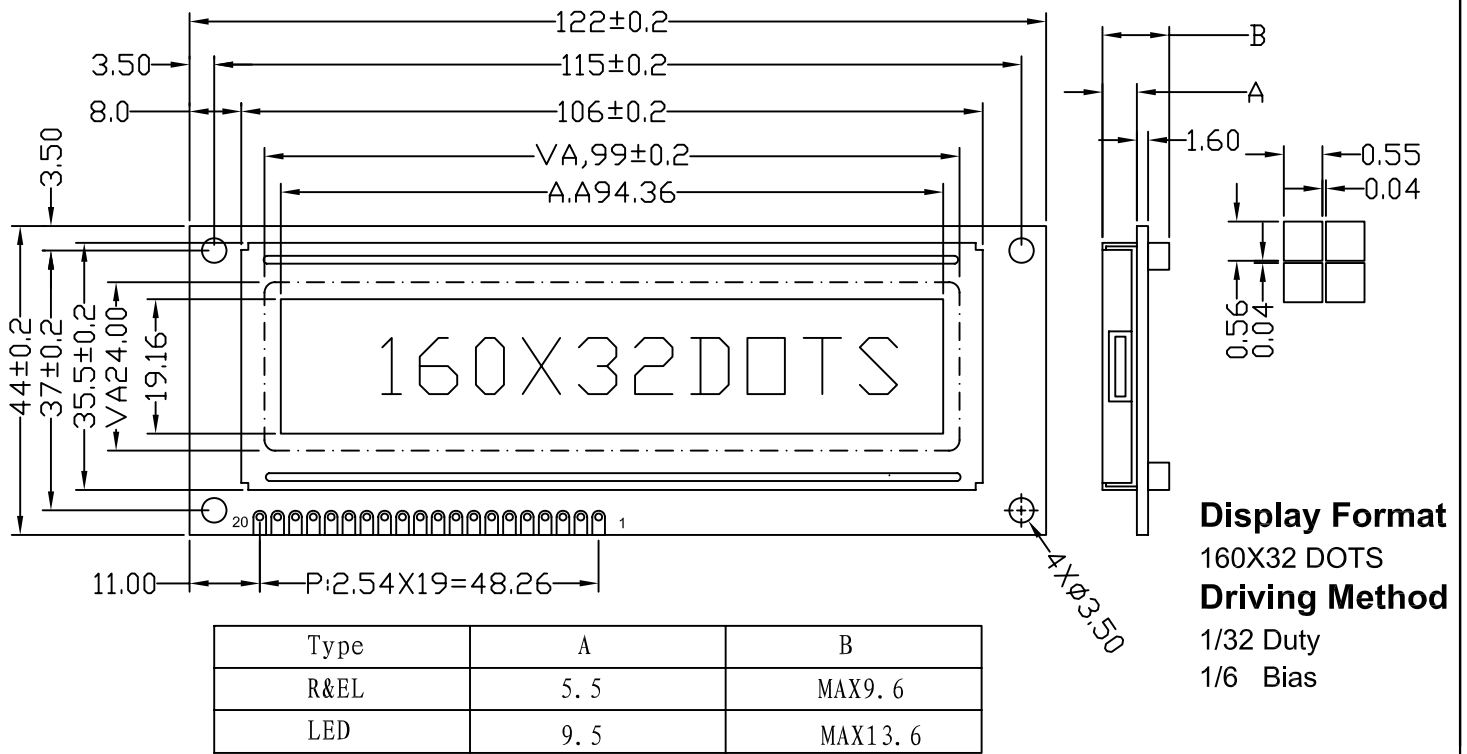


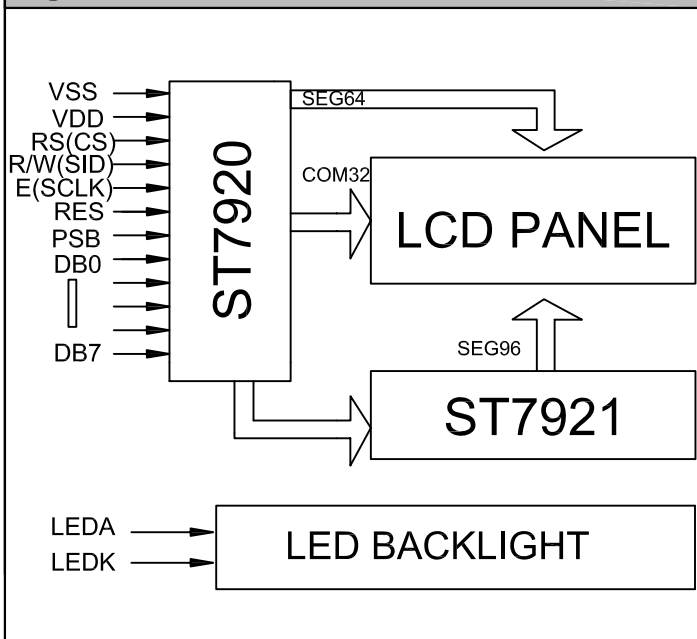
## ① PHYSICAL DIMENSION



## ② MECHANICAL DATA

| ITEM                               | SPECIFICATION                  | UNIT |
|------------------------------------|--------------------------------|------|
| Module Size With B/L ( W X H X T ) | 122X 44X 9.6 and 122X 44X 13.6 | mm   |
| Viewing Area ( W X H )             | 99.0 X 24.0                    | mm   |
| Number of Dots ( W X H )           | 160 X 32                       | dots |
| Dot Pitch ( W X H )                | 0.59 X 0.60                    | mm   |
| Dot Size ( W X H )                 | 0.55 X 0.56                    | mm   |
| Weight                             | 80.0 (With B/L)                | g    |

## ④ BLOCK DIAGRAM



## ③ PIN CONFIGURATION

| ITEM | SYMBOL    | DESCRIPTION                                     |                    |                          |                          |
|------|-----------|---|--------------------|--------------------------|--------------------------|
| 1    | VSS VSS   | Power ground                                    |                    |                          |                          |
| 2    | VDD VDD   | Power positive (+5V±10%).                       |                    |                          |                          |
| 3    | V0 V0     | Operating voltage for LCD Driver(variable)      |                    |                          |                          |
| 4    | RS CS     | H:Data L:Instruction Code                       | Serial Chip Select |                          |                          |
| 5    | R/W SID   | H:Read L:Write                                  | Serial Data        |                          |                          |
| 6    | E SCLK    | Enable trigger.                                 | Serial Clock       |                          |                          |
| 7    | DB0       | Data bus [0~7].There state I/O common terminal. | No Connect         |                          |                          |
| 14   | DB7       |   |                    |                          |                          |
| 15   | PSB PSB   |   |                    | H:Parellal mode          | L: Serial mode           |
| 16   | NC NC     |   |                    | No Connect               | No Connect               |
| 17   | /RES /RES |   |                    | System reset low active. | System reset low active. |
| 18   | VOUT VOUT |   |                    | Negative voltage Output  | Negative voltage Output  |
| 19   | LED_A     |   |                    | Backlight Anode(+5V) .   |                          |
| 20   | LED_K     |   |                    | Backlight Cathode (0V).  |                          |

## ⑤ ABSOLUTE MAXIMUM RATINGS (25°C)

| PARAMETER             | SYMBOL | MIN. | MAX. | UNIT |
|-----------------------|--------|------|------|------|
| SUPPLY VOLTAGE LOGIC  | VDD    | 0    | 5.5  | V    |
| SUPPLY VOLTAGE DRIVER | V0-GND | 0    | 15   | V    |
| INPUT VOLTAGE         | VIN    | 0    | VDD  | V    |