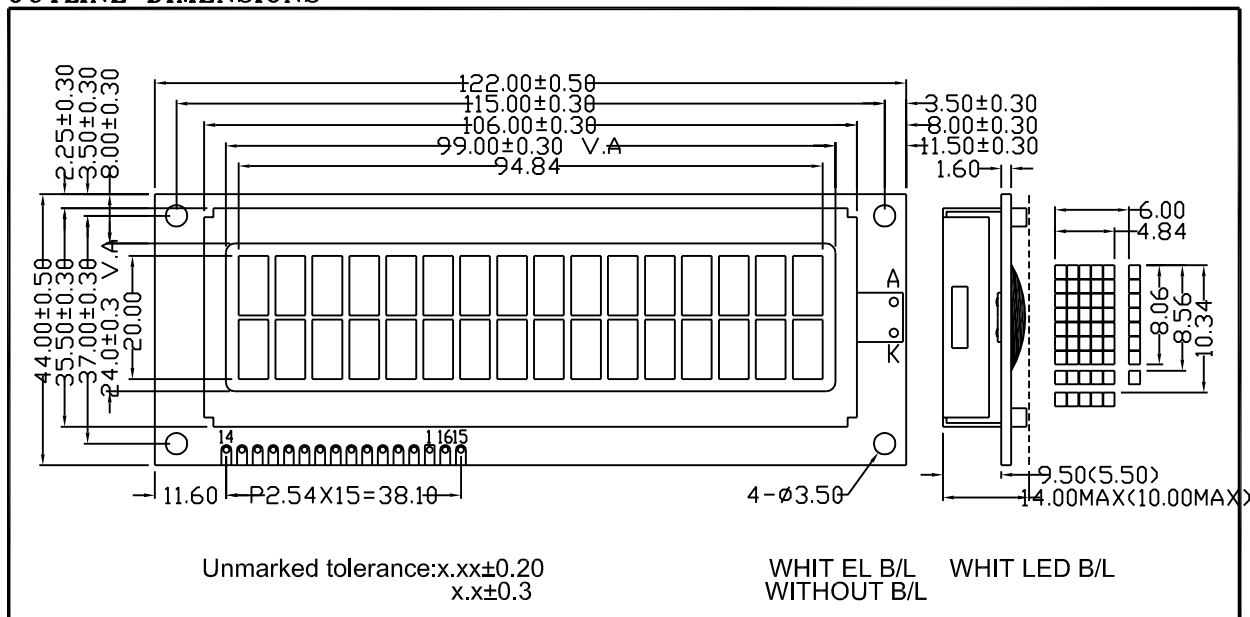


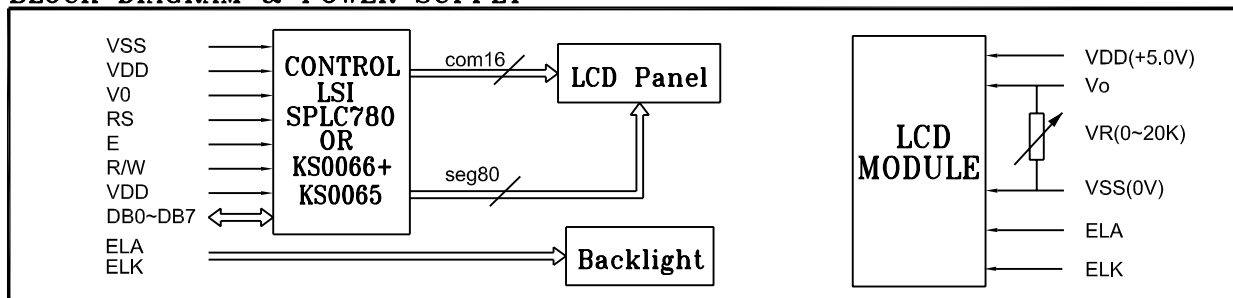
LCD-DISPLAY YM-1602L Series

16X2 CHARACTERS
1/16 DUTY, 1/5 BIAS

OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATION & FEATURE

| Item | Normal Dimensions(mm) | FEATURE | |
|----------------------|-----------------------|-----------------------|---|
| Module Size(W*H*T) | 122.0X44.0X10.0/14.0 | LCD Type | STN, TN, HTN, FSTN |
| View Area(W*H) | 99.0X24.0 | LCD Colour | STN:Yellow-Green, Grey Other:Gray |
| Character Pitch(W*H) | 6.0X10.34 | View Angle | 6 O'Clock, 12 O'Clock |
| Character size(W*H) | 4.84X4.35 | Display Type | Positive Type, Negative Type |
| Character Font | 5X8 | Real polarizer | Transmissive, Reflective, Transflective |
| Dot Pitch(W*H) | 0.98X1.16 | Operating Temperature | -10°C~50°C, -20°C~60°C |
| Dot Size(W*H) | 0.92X1.10 | Backlight | LED:Yellow EL:Green,Blue-Green,blue Without |

ELECTRICAL CHARACTERISTICS

| Item | Symbol | Symbol | Min. | Typ. | Max. | Unit |
|------------------------------|--------|-------------------|------|------|------|------|
| Operating Voltage | Vdd | Ta=25°C | --- | 5.0 | --- | V |
| Operating Voltage LCD | Vlcd | Ta=25°C | --- | 4.7 | --- | V |
| Supply Current | Idd | Ta=25°C, Vdd=5.0V | --- | 2.0 | 3.0 | mA |
| Supply Current for Backlight | Ib | Ta=25°C, Vf=4.7V | --- | --- | --- | mA |

INTERFACE PIN CONNECTIONS

| Pin No. | Symbol | Level | Description |
|---------|---------|-------|--|
| 1 | VSS | --- | Ground for Logic |
| 2 | VDD | --- | Power supply for Logic(+5.0V) |
| 3 | V0 | --- | Power supply for LCD drive |
| 4 | RS | H/L | Register selection (H:DATA register, L:Instruction register) |
| 5 | R/W | H/L | Read/Write selection (H:Read, L:Write) |
| 6 | E | H/L | Enable signal for LCM |
| 7~14 | DB0-DB7 | H/L | Data Bus lines |
| 15 | A | --- | Backlight(+5.0V) |
| 16 | K | --- | Backlight(0V) |

REMARK

Operating voltage option : 5.0V or 3.0V
CGROM font option : English Japanese Russian etc