

# TN/STN

## Graphics

Liquid Crystal Display

**Phoenix Display International, Inc.**

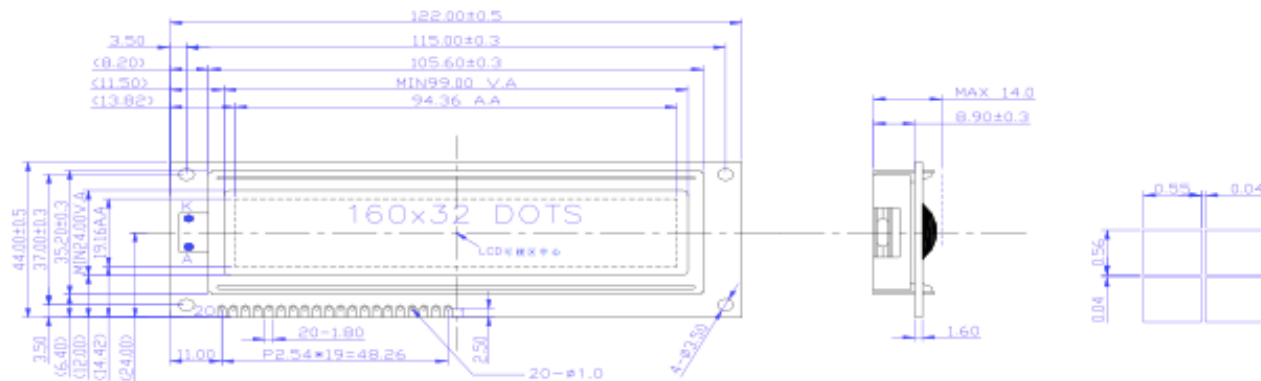
# PRODUCT PREVIEW

## 160 x 32 Monochrome

### SPECIFICATIONS

#### MODULE

|                    |                          |
|--------------------|--------------------------|
| Part Number        | G-1603202C-VA            |
| Format             | 160 Columns by 32 Rows   |
| Controller         | STN7920, ST7921          |
| Overall Dimensions | 122.0mm x 44.0mm x 2.8mm |
| Active Area        | 48.0mm x 24.3mm          |
| Pixel Pitch        | 500um x 510um            |
| Pixel Size         | 480um x 490um            |
| Backlight System   | LED                      |
| Driver Attach      | Chip on Board (COB)      |
| Glass Type         | STN, FSTN                |
| Display Type       | R,TF,TM                  |
| Duty               | 1/32                     |



#### NOTE:

1. STN, Y/G, POSITIVE, TRANSLFLECTIVE
2. 1/32 DUTY, 1/5BIAS, V<sub>op</sub>=6.0V, V<sub>dd</sub>=5.0V, I<sub>DD</sub> MAX 5.0mA
3. V<sub>D</sub>: 6.00
4. OP. TEMP: -20°C - 70°C
5. ST. TEMP: -30°C - 80°C
6. LCD CONTROLLER: ST7920
7. BACKLIGHT: LED, Y/G, 4.2V, <240mA, 568±5nm, 80CD/m<sup>2</sup>
8. LCD DRAWING NO.: JY05A36



| PIX NO. | 1   | 2   | 3  | 4  | 5   | 6 | 7-14  | 15  | 16 | 17   | 18 | 19   | 20   |
|---------|-----|-----|----|----|-----|---|-------|-----|----|------|----|------|------|
| SYMBOL  | YSS | VDD | NC | RS | R/W | E | DO-D7 | PSB | NC | /RST | NC | LED- | LED+ |

