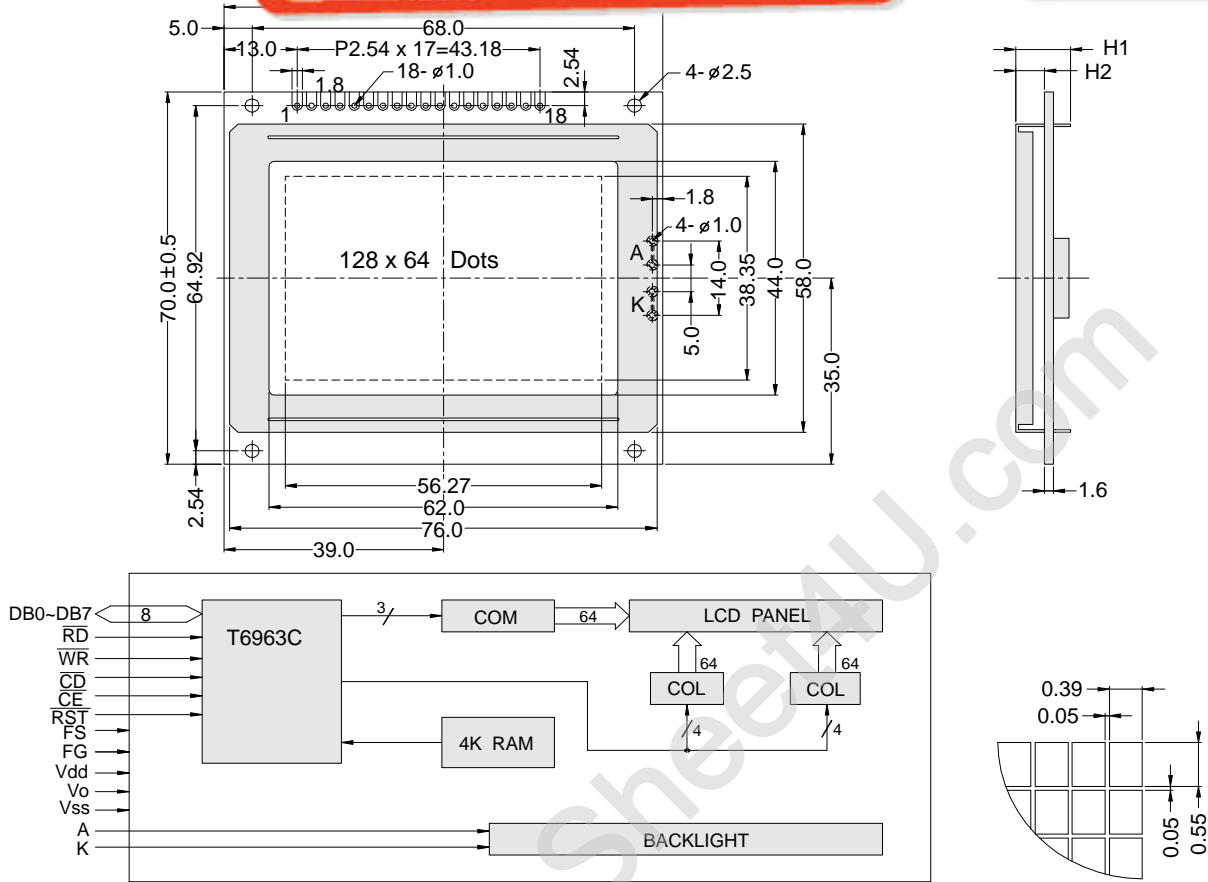


**PG 12864-F**

液晶之友 电话: 020-33819057  
 BLOCK DIAGRAM  
<http://www.lcdfriends.com>



**OUTLINE DIMENSION**



The tolerance unless classified  $\pm 0.3\text{mm}$

| MECHANICAL SPECIFICATION |             |         |            |
|--------------------------|-------------|---------|------------|
| Overall Size             | 78.0 x 70.0 | Module  | H2 / H1    |
| View Area                | 62.0 x 44.0 | W/O B/L | 5.1 / 9.7  |
| Dot Size                 | 0.39 x 0.55 | EL B/L  | 5.1 / 5.7  |
| Dot Pitch                | 0.44 x 0.60 | LED B/L | 9.2 / 13.8 |

| PIN ASSIGNMENT |         |                       |
|----------------|---------|-----------------------|
| Pin no.        | Symbol  | Function              |
| 1              | FG      | Frame ground          |
| 2              | Vss     | Power supply(GND)     |
| 3              | Vdd     | Power supply(+)       |
| 4              | Vo      | Contrast Adjust       |
| 5              | WR      | Data write            |
| 6              | RD      | Data read             |
| 7              | CE      | Chip enable           |
| 8              | CD      | Command / data select |
| 9              | RST     | Reset                 |
| 10-17          | DB0-DB7 | Data bus line         |
| 18             | FS      | Font select           |

| ABSOLUTE MAXIMUM RATING          |           |           |       |         |       |       |     |     |   |
|----------------------------------|-----------|-----------|-------|---------|-------|-------|-----|-----|---|
| Item                             | Symbol    | Condition | Min.  | Max.    | Units |       |     |     |   |
| Supply for logic voltage         | Vdd-Vss   | 25°C      | -0.3  | 7.0     | V     |       |     |     |   |
| LCD driving supply voltage       | Vdd-Vee   | 25°C      | 0     | 22.0    | V     |       |     |     |   |
| Input voltage                    | Vin       | 25°C      | -0.3  | Vdd+0.3 | V     |       |     |     |   |
| ELECTRICAL CHARACTERISTICS       |           |           |       |         |       |       |     |     |   |
| Item                             | Symbol    | Condition | Min.  | Typical | Max.  | Units |     |     |   |
| Power supply voltage             | Vdd-Vss   | 25°C      | 4.5   | -       | 5.5   | V     |     |     |   |
| LCD operation voltage            | Vop       | Top       | N     | W       | N     | W     | V   |     |   |
|                                  |           | -20°C     | - 8.6 | - 9     | - 9.5 | -     | V   |     |   |
|                                  |           | 0°C       | 8.5   | - 8.9   | - 9.3 | -     | V   |     |   |
|                                  |           | 25°C      | 8     | 8.6     | 8.4   | 9     | 8.8 | 9.5 | V |
|                                  |           | 50°C      | 7.6   | - 8     | - 8.4 | -     | V   |     |   |
|                                  |           | 70°C      | - 8   | - 8.4   | - 7.8 | V     |     |     |   |
| LCM current consumption (No B/L) | Idd       | Vdd=5V    | -     | 6.5     | -     | mA    |     |     |   |
| Backlight current consumption    | LED/edge  | VB/L=4.2V | -     | -       | -     | mA    |     |     |   |
|                                  | LED/array | VB/L=4.2V | -     | 350     | -     | mA    |     |     |   |

**REMARK**

LCD option: STN, TN, FSTN

Backlight Option: LED,EL Backlight feature, other Specs not available on catalog is under request.

