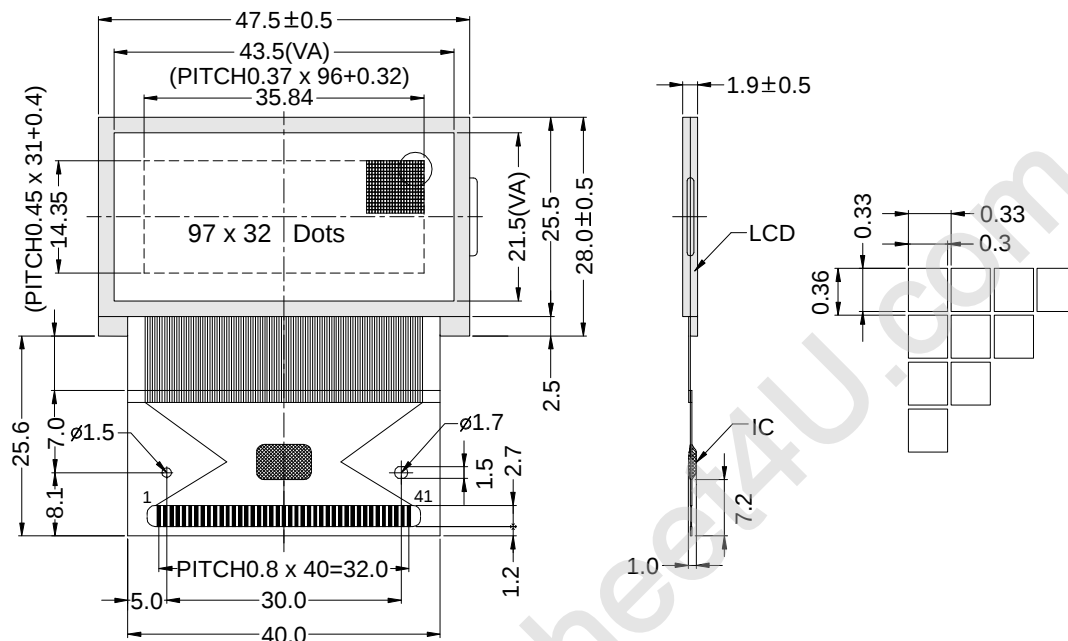


OUTLINE DIMENSION & BLOCK DIAGRAM

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Http://www.lcdfriends.com



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

#### MECHANICAL SPECIFICATION

|              |             |           |         |
|--------------|-------------|-----------|---------|
| Overall Size | 47.5 x 28.0 | Module    | H2 / H1 |
| View Area    | 43.5 x 21.5 | W / O B/L | 1.9     |
| Dot Size     | 0.32 x 0.40 | EL B/L    | - / -   |
| Dot Pitch    | 0.37 x 0.45 | LED B/L   | - / -   |

#### PIN ASSIGNMENT

| Pin no. | Symbol    | Function                           |
|---------|-----------|------------------------------------|
| 2       | FRS       | Static driver output               |
| 3       | FR        | LCD AC signal                      |
| 4       | Dyo       | Command driver signal output       |
| 5       | CL        | Display clock I/O                  |
| 6       | DOF       | LCD blanking control I/O           |
| 7       | VS1       | Internal power supply              |
| 8       | MS        | Master / slave mode select         |
| 9       | RST       | Reset                              |
| 10      | P/S       | Serial / Parallel data select      |
| 11-12   | CS1, CS2  | Chip select                        |
| 13      | C86       | Microprocessor interface select    |
| 14      | Ao        | Cortori / display data flag        |
| 15/16   | WR/RD     | Data write / read                  |
| 17/26   | Vdd, Vss  | Power supply                       |
| 18-25   | D0-D7     | Data bus line                      |
| 27      | Vout      | DC voltage output                  |
| 28-32   | CAP1-CAP2 | Capacitor connection               |
| 34      | VR        | Voltage adjust                     |
| 36-40   | V1-V5     | Bias for LCD driver supply voltage |

#### 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      | -0.3 | 18.0    | 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      | 2.7  | -       | 5.5  | V     |
| LCD operation voltage            | Vop      | Top       | N    | W       | N    | W     |
|                                  |          | -20°C     | -    | 6       | -    | 6.8   |
|                                  |          | 0°C       | 5.3  | -       | 5.6  | -     |
|                                  |          | 25°C      | 5.1  | 5.8     | 5.4  | 6.2   |
|                                  |          | 50°C      | 4.4  | -       | 4.7  | -     |
| LCM current consumption (No B/L) | Idd      | Vdd=5V    | -    | 0.5     | 1    | mA    |
|                                  |          | VB/L=2.1V | -    | -       | -    | mA    |
| Backlight current consumption    | LED/edge | VB/L=4.2V | -    | -       | -    | mA    |
|                                  |          | LED/array | -    | -       | -    | mA    |

#### REMARK

LCD option: STN, TN, FSTN

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