**Winstar Display Co., LTD**
華凌光電股份有限公司
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# SPECIFICATION

**CUSTOMER :** _____

**MODULE NO.: WH1602B3**

## General Specification

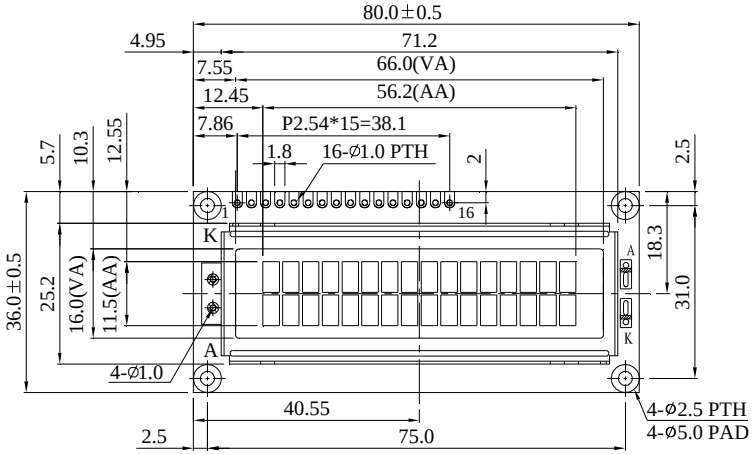
| Item | Dimension | Unit |
|---|---|---|
| Number of Characters | 16 characters x 2Lines | — |
| Module dimension | 80.0 x 36.0 x 13.2 (MAX) | mm |
| View area | 66.0 x 16.0 | mm |
| Active area | 56.20 x 11.5 | mm |
| Dot size | 0.55 x 0.65 | mm |
| Dot pitch | 0.60 x 0.70 | mm |
| Character size | 2.95 x 5.55 | mm |
| Character pitch | 3.55 x 5.95 | mm |
| Duty | 1/16 | |
| View direction | 6 o'clock | |

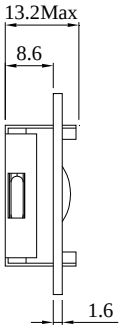
Represented by:
first FC components
FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)
T. +39 0332 1888005 web: www.first-components.com

# Interface Pin Function

| Pin No. | Symbol | Level | Description |
|---|---|---|---|
| 1 | $V_{SS}$ | 0V | Ground |
| 2 | $V_{DD}$ | 5.0V | Supply Voltage for logic |
| 3 | VO | (Variable) | Operating voltage for LCD |
| 4 | NC | — | No connection |
| 5 | NC | — | No connection |
| 6 | NC | — | No connection |
| 7 | SA0 | H/L | In IIC interface ,DB1(SA1) and DB0(SA0) are used for Slave address, must be connect to VDD or VSS |
| 8 | SA1 | H/L | |
| 9 | NC | — | No connection |
| 10 | NC | — | No connection |
| 11 | NC | — | No connection |
| 12 | CSB | H/L | In IIC serial mode, used as chip selection input.<br>When CSB = “Low”, selected<br>When CSB = “High”, not selected.<br>( Low access enable ) |
| 13 | SDA | H/L | serial input data |
| 14 | SCL | H/L | serial clock input |
| 15 | A | — | Power supply for B/L + |
| 16 | K | — | Power supply for B/L - |

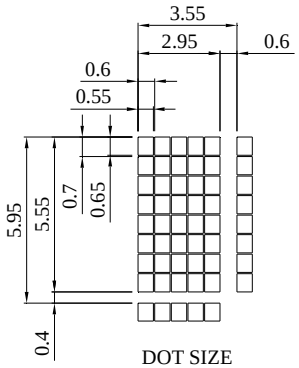
# Contour Drawing &Block Diagram



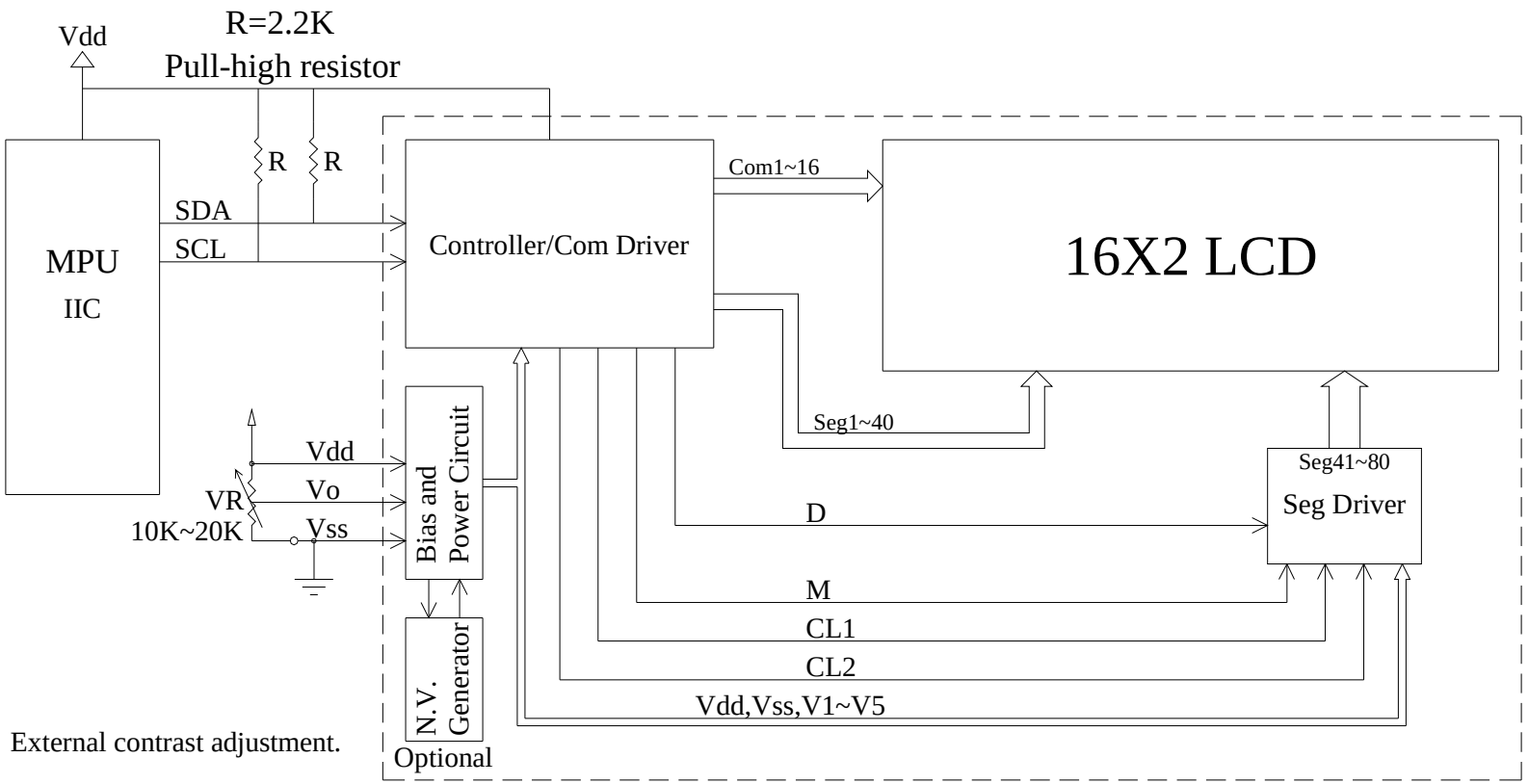

LED B/L

| PIN NO. | SYMBOL |
|---|---|
| 1 | Vss |
| 2 | Vdd |
| 3 | Vo |
| 4 | NC |
| 5 | NC |
| 6 | NC |
| 7 | SA0 |
| 8 | SA1 |
| 9 | NC |
| 10 | NC |
| 11 | NC |
| 12 | CSB |
| 13 | SDA |
| 14 | SCL |
| 15 | A |
| 16 | K |




DOT SIZE
SCALE 5/1

The non-specified tolerance of dimension is ±0.3mm.




| Character located | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DDRAM address | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
| DDRAM address | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 4A | 4B | 4C | 4D | 4E | 4F |