



BOLYMIN INC.

BC1602L

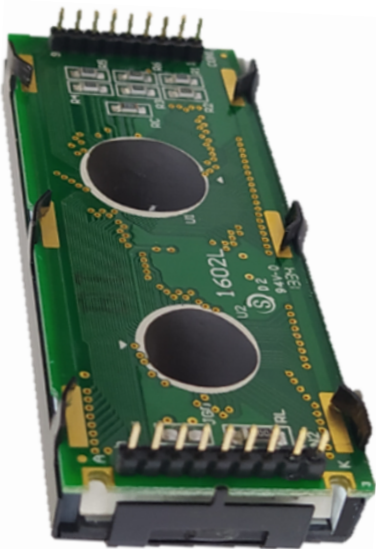
DIP MODULE LCD SERIES

BC1602L

GRAPHIC DIP MODULE
LCD SERIES

BC1602L is a 16x02 alphanumeric LCD that comes with built-in 18 pin header.

It is a (Chip-on-Board) LCD display that doesn't require screws for mounting and customer can directly solder it on their PCB.



ADVANTAGES

Built-in pin header

Easy Mounting

No Screw Required

Save Time & Cost

ST7066 Controller

BOLYMIN, INC.

E-mail : info@bolymin.com.tw

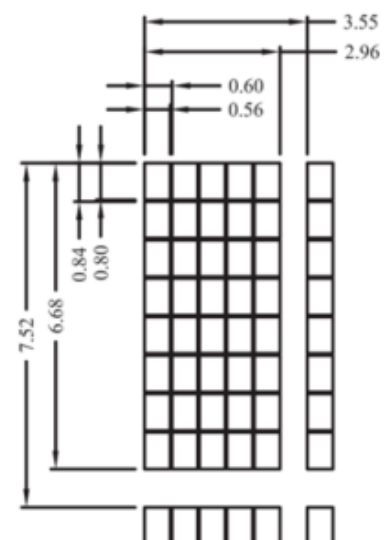
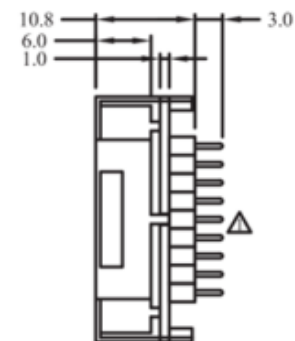
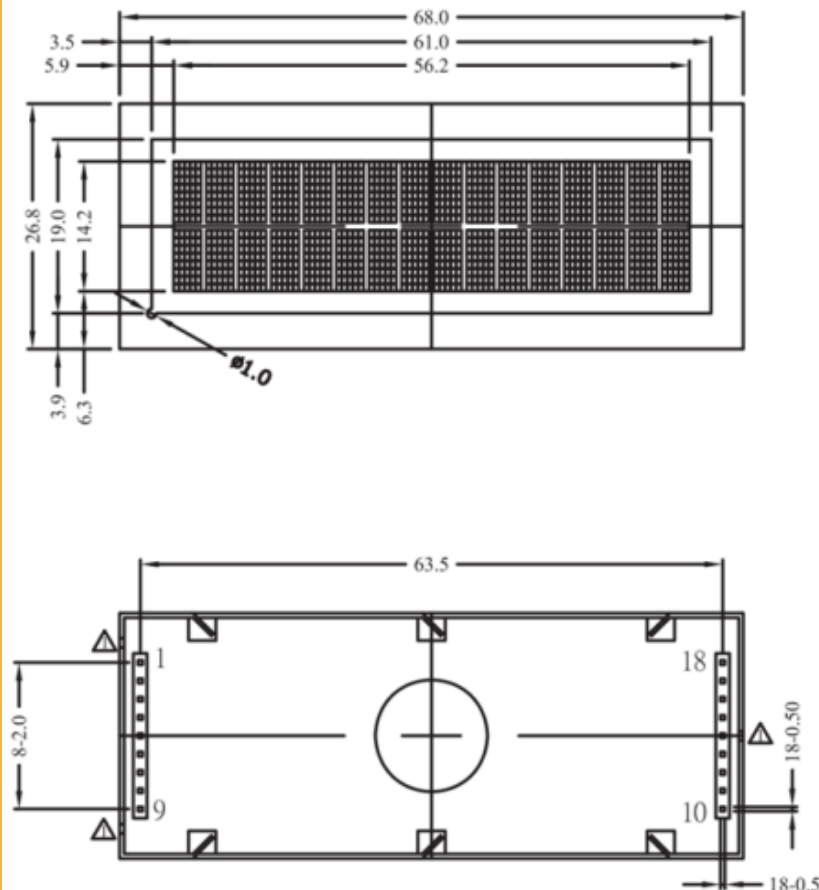
EASY HANDLING

DIP Module LCD makes handling much easier during mounting in assembly lines and save considerable amount of time to customers.



DIMENSION

Item	Standard Value	Unit
Module Dimension	68.0(L) x 26.8(W) x 10.5(H)	mm
View Area	61.0(W)×19.0(H)	mm
Active Area	56.20(W)×14.20(H)	mm
Dot Size	0.56(W)×0.8(H)	mm
Dot Pitch	0.60(W)×0.84(H)	mm



PIN ASSIGNMENT

Pin	Symbol	Function
1	1VSS	GND
2	VDD	+5V
3	VO	Contrast adjustment
4	RS	H/L register select signal
5	R/W	H/L read/write signal
6	E	H àL enable signal
7~14	DB0~DB7	H/L data bus line
15	NC	No connection
16	NC	No connection
17	A	Power supply for B/L(+)
18	K	Power supply for B/L(GND)

FEATURES

1. COB with metal frame
2. 5x7 dots with cursor
3. Built-in controller ST7066 or equivalent
4. +5V single power supply
5. 1/16 duty cycle
6. LED B/L pins: 17/18
7. No Negative Voltage Option
8. DIP module

ELECTRONIC CHARACTERISTICS

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	1.5	mA
LCD Driving Voltage	Vdd-Vo	25°C	4.0	V
LED Forward Voltage (yellow-green)	Vf	25°C	4.2	V
LED Forward Current	If	25°C	150	mA

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BUILT IN CONTROLLER ST7066U

BC1602L comes with ST7066U (or equivalent) built in LSI controller; the controller has two 8-bit registers, an instruction register (IR) and a data register (DR).

The IR stores instruction codes, such as display clear and cursor shift, and address information for display data RAM (DDRAM) and character generator (CGRAM). The IR can only be written from the MPU. The DR temporarily stores data to be written or read from DDRAM or CGRAM. When address information is written into the IR, then data is stored into the DR from DDRAM or CGRAM. By the register selector (RS) signal, these two registers can be selected.

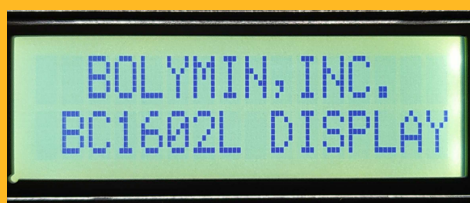
LCD TYPES & BACK-LIGHT OPTIONS



**STN Yellow Green +
Yellow Green
Backlight**



**FSTN Positive +
White Backlight**



**STN Gray +
White Backlight**



**STN Blue +
White Backlight**

BOLYMIN, INC.

TEL: +886-(0)4-25658689 || FAX: +886-(0)4-25658698

Address: 5F, No.38, Keya Rd., Daya Dist.,

Central Taiwan Science Park, Taichung City, 42881, Taiwan.

E-mail : info@bolymin.com.tw