



BOLYMIN INC.

BC0802B

DIP MODULE LCD SERIES

BC0802B

GRAPHIC DIP MODULE
LCD SERIES

BC0802B is a 08x02 alphanumeric LCD that comes with built-in 14 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

Built in controller

BOLYMIN, INC.

E-mail : info@bolymin.com.tw

EASY HANDLING

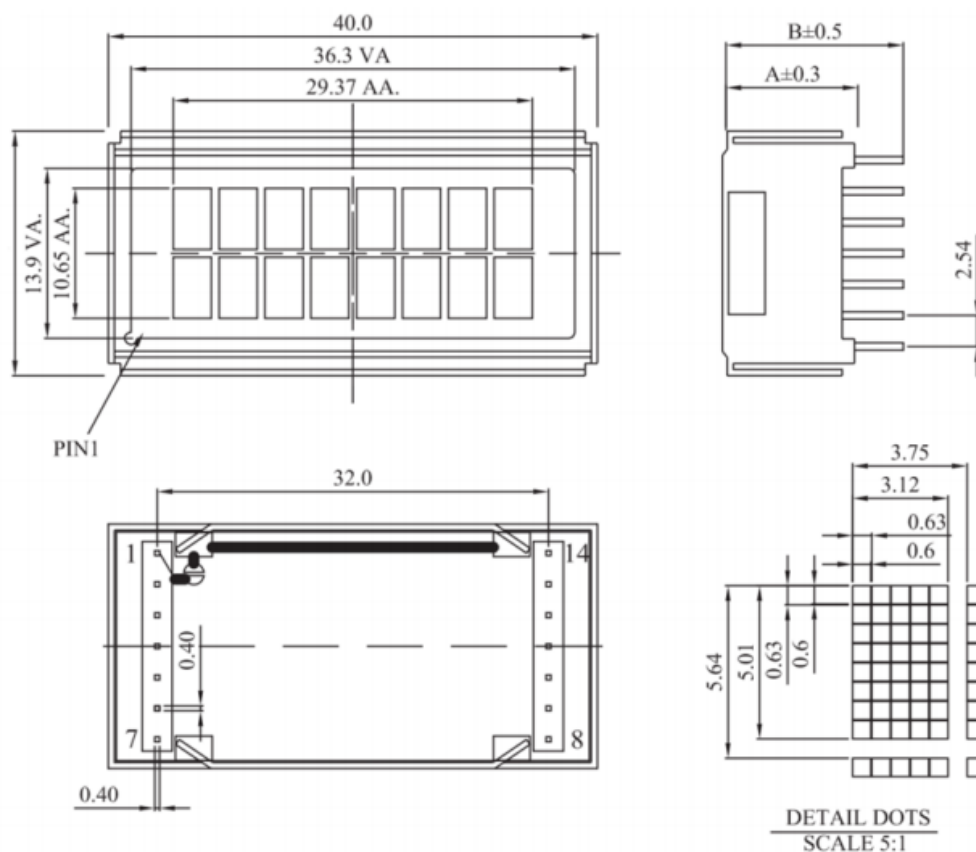
DIP Module LCD makes handling much easier during mounting in assembly lines and save considerable amount of time to customers.



SMALL DIMENSION

BC0802B offers a very small LCD Module, details dimension are below.

Item	Standard Value	Unit
Module Dimension	40.0(L) x 20.0(W) x 14.5(H)	mm
View Area	36.3(W)×13.9(H)	mm
Active Area	29.37(W)×10.65(H)	mm
Dot Size	0.60(W)×0.60(H)	mm
Dot Pitch	0.63(W)×0.63(H)	mm



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PIN ASSIGNMENT

Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	+5V (+3V option)
3	Vo	Contrast adjustment
4	RS	H/L register select signal
5	R/W	H/L read/write signal
6	E	H --> L enable signal
7~14	DB0~7	H/L data bus line

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. Option:array LED B/L
7. No Negative Voltage Option

ELECTRONIC CHARACTERISTICS

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	Vf	25°C	4.0	V
LED Forward Current	If	25°C	100	mA

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BUILT IN CONTROLLER SBN1661G_M18

BC0802B comes with ST7066 (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



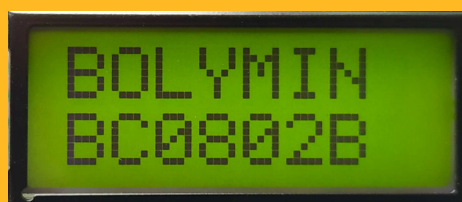
**STN Yellow Green +
Yellow Green Backlight**



**STN Yellow Green +
White Backlight**



**STN Gray +
White Backlight**



**STN Gray
Yellow Green Backlight**



**STN Blue +
White Backlight**



**STN Blue
Yellow Green Backlight**

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