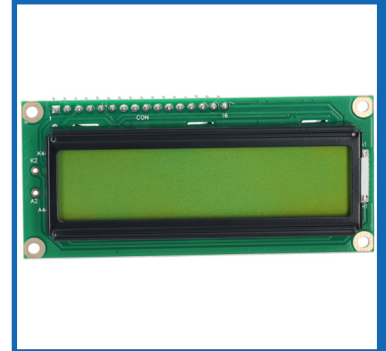


16 x 2 LCD Display Yellow/Green



DESCRIPTION

A 16 x 2 LCD display with header fitted. This display has a reflective type display with a STN positive yellow/green LCD module, with a yellow/green LED backlight. This display has a built-in ST7066 controller IC with a 6800 4/8-bit parallel interface.

DISTINCTIVE FEATURES

- 2 lines x 16 characters
- LED backlight
- 5 x 8 dots
- 6800 4/8-bit parallel interface
- ST7066 IC (or equivalent)

APPLICATIONS

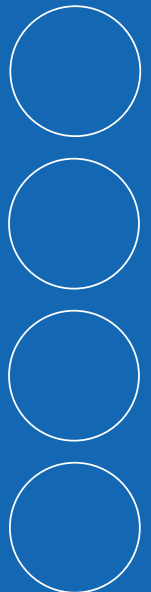
This LCD display is typically used in industrial control, consumer electronics and DIY electronics projects. The ability to display text-based and numerical information and its compact size make it suitable for use in embedded systems, smart devices and home automation.

16 x 2
LCD

LED
Backlight

5V

COB





ELECTRICAL SPECIFICATION

IEC Compliant to	IEC 60127-2/V
Rated Voltage	5V DC
Rated Current	see table below
Supply Voltage for Logic	see table below
Supply Voltage for LCD	see table below

Electrical Characteristics

	Symbol	Condition	Min.	Typical	Max.	Unit
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	-	4.5	5.0	5.5	V
Supply Voltage (LCD)*	$V_{DD}-V_0$	$T_a = 20^{\circ}\text{C}$	-	-	5.2	V
		$T_a = 25^{\circ}\text{C}$	3.6	3.7	3.8	V
		$T_a = 70^{\circ}\text{C}$	3.2	-	-	V
Input High Volt.	V_{IH}	-	$0.7 V_{DD}$	-	V_{DD}	V
Input Low Volt.	V_{IL}	-	V_{SS}	-	0.6	V
Output High Volt.	V_{OH}	-	3.9	-	V_{DD}	V
Output Low Volt.	V_{OL}	-	0	-	0.4	V
Supply Current	I_{DD}	$V_{DD} = 5.0\text{V}$	1.0	1.2	1.5	mA

Interface Pin Functions

Pin No.	Symbol	Level	Description
1	V _{SS}	0V	Ground
2	V _{DD}	5.0V	Logic supply voltage
3	VO	Variable	Contrast Adjustment
4	RS	H/L	H: DATA, L: Write
5	R/W	H/L	Chip Enable signal
6	E	H, H→L	Data bus line
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	A	-	Power supply for B/L (+)
16	K	-	Power supply for B/L (-)



GENERAL SPECIFICATION

Series	LCD Displays
Type	16 x 2 with header
Display Format	16 characters x 2 lines
Backlight Type	LED
LCD Type	STN
Operating Mode	Positive
View Area	66.0 x 16.0mm
Active Area	56.2 x 11.5mm
Dot Size	0.55 x 0.65mm
Dot Pitch	0.6 x 0.7mm
Character Size	2.95 x 5.55mm
Character Size	3.55 x 5.95mm
Duty	1/16
IC	ST7066U
Interface	6800
Display Colour	Yellow/Green
Product Marking	Model number



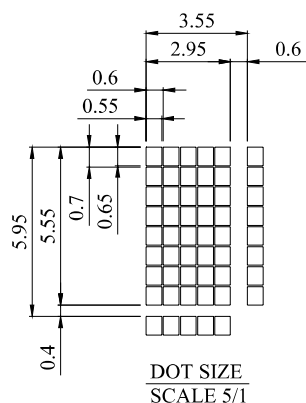
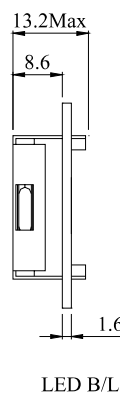
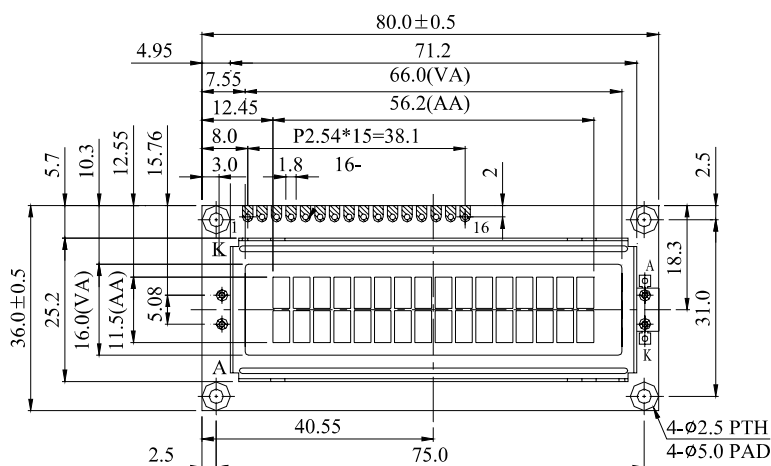
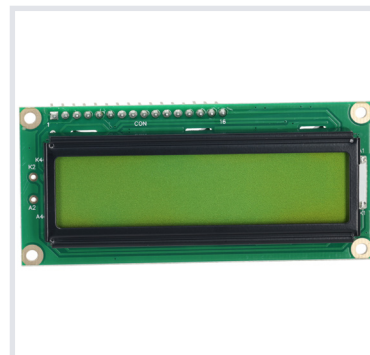
ENVIRONMENTAL/OPERATING SPECIFICATION

Operating Temperature	-20°C to 70°C
Storage Temperature	-30°C to 80°C
RoHS	Yes



DIMENSIONS/DRAWINGS

Units	mm - unless stated otherwise
Dimensions (Summary)	80 x 36 x 13.2mm (max.)
Length	80mm
Width	36mm
Height	13.2mm
Height (incl. header)	- mm
Weight	- g



DOT SIZE
SCALE 5/1

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.



PART NUMBER TABLE

Part Number Table	Character Display	UNSPSC	EAN	Country of Origin
61-6235	16 x 2 LCD	-	5053556001149	China