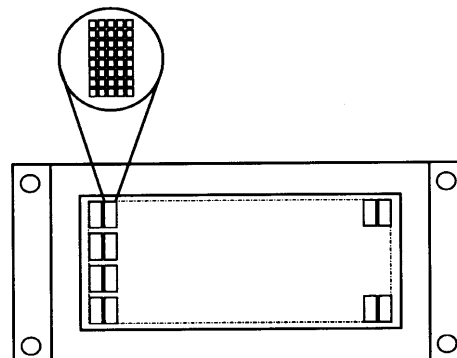


BT42003XXXXX

481-695

Standard Character LCD Module

- 4 Line of 20 Characters
- 5 x 7 Dot Matrix
- 3mm High Characters
- 65mm x 28.4mm PCB Dimensions
- Standard LCD Command Set
- 16 pin SIL surface mount connector



This single board display module consists of an LCD and controller drivers with a 4 or 8 bit parallel interface compatible to the 44780 industry standard.

AVAILABLE WITH :-

- Positive or Negative mode
- 6 or 12 o'clock viewing angle
- TN,STN (Yellow/Grey/Silver mode) or FSTN (Black/White)
- Reflective, Transflective or Transmissive cell type

BACKLIGHT SPECIFICATION

Type	Voltage (Typical)	Current(Typical)
Yellow LED	4.2V	40mA
Red LED	Contact Office	
Amber LED	Contact Office	
Electroluminescent	Contact Office	

ELECTRICAL SPECIFICATION

Parameter	Symbol	Value	Condition
Logic Supply Voltage	VDD	5V +/-5 %	
Logic Supply Current	IDD	2.0mA Typ.	VDD = 5V
Max Input Voltage	VI	-0.3V to VDD+0.3V	
Logic High Input	VIH	2.2V Min	VDD = 5V
Logic Low Input	VIL	0.6V Max	VDD = 5V
Logic High Output	VOH	2.4V Min	VDD = 5V
Logic Low Output	VOL	0.4V Max	VDD = 5V

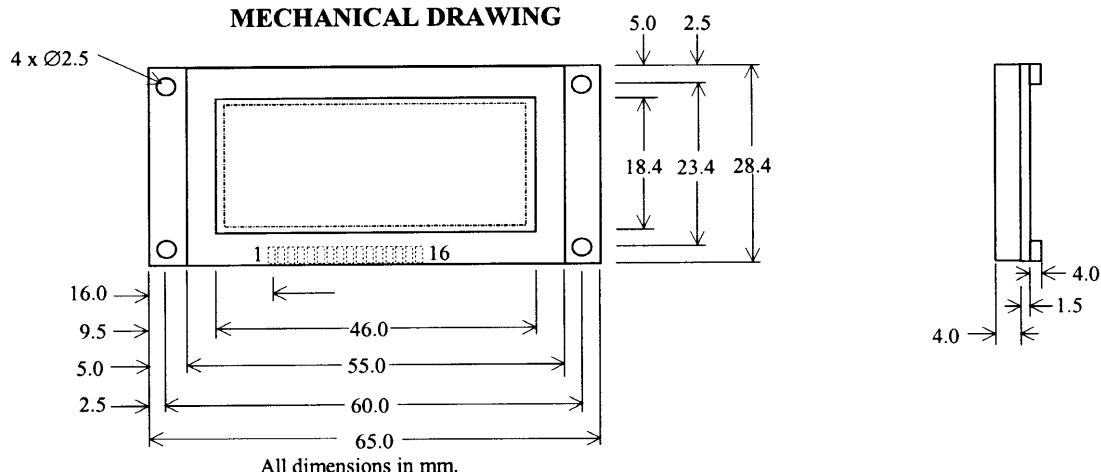
ENVIRONMENTAL SPECIFICATION

Parameter	Standard Temp	Extended Temp	Wide Temp (TN Only)
Operating Temperature	-5°C to +50°C - STN only	-20°C to +60°C - Neutral	-30°C to +80°C - Reflective
Operating Temperature	0°C to +40°C - FSTN only	-20°C to +70°C - Yellow Types	-25°C to +80°C - with LED
Storage Temperature	-20°C to +60°C - STN only	-30°C to +70°C - Neutral	-40°C to +85°C - Reflective
Storage Temperature	10°C to +50°C - FSTN only	-30°C to +80°C - Yellow Types	-30°C to +85°C - with LED
Operating Humidity max	85% RH @ 50°C		

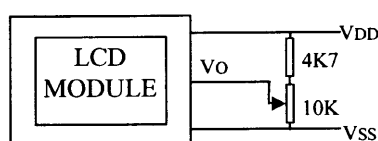
PINOUT

1	VSS
2	VDD
3	Vo
4	RS
5	R/W
6	E
7	D0
8	D1
9	D2
10	D3
11	D4
12	D5
13	D6
14	D7
15	VLED+
16	VLED-

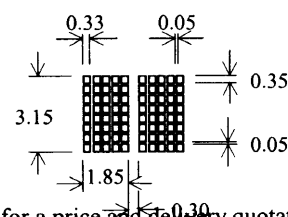
MECHANICAL DRAWING



CONTRAST CONTROL CIRCUIT



DISPLAY PATTERN



All information in this document is subject to change without notice. Please contact our sales office for a price and delivery quotation.