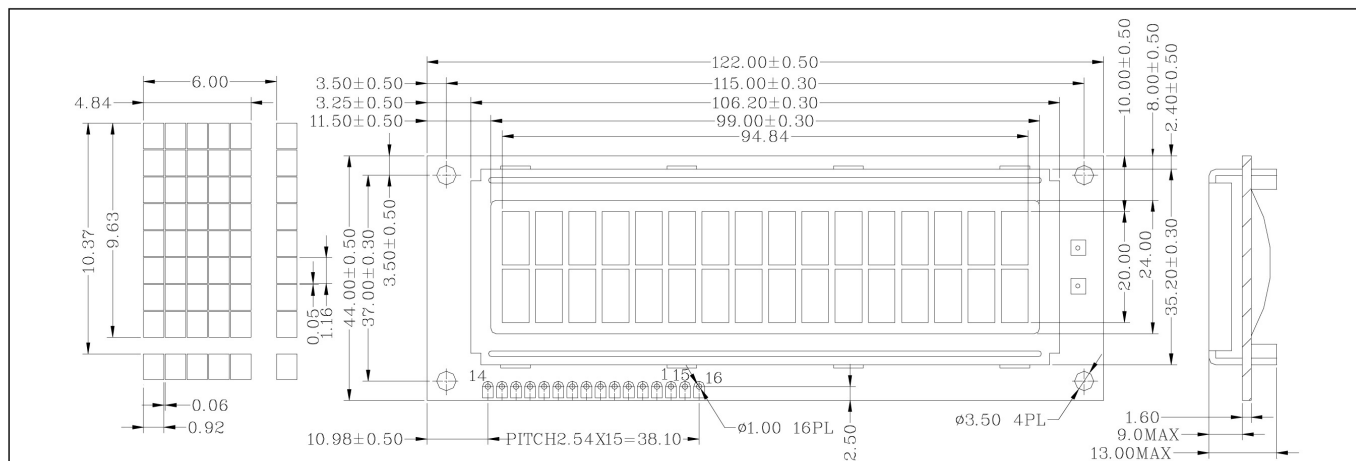


T162DBNL

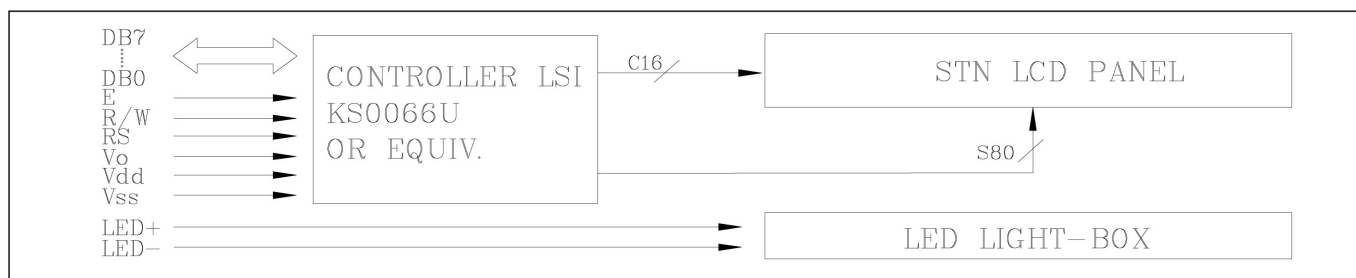
16 CHARACTERS x 2 LINES

1/16 DUTY, 1/5 BIAS

EXTERNAL DIMENSIONS



BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS

LED Color : Yellow Green				
Suggested LED	Current Consumption			
Power Supply to PIN 15, 16	MIN	TYP	MAX	UNIT
5.0V DC	---	140	210	mA
* (With built on board current limited resistor version) *				

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (WxH)	122.0 x 44.0	mm
Viewing Area (WxH)	99.0 x 24.0	mm
Character Pitch (WxH)	6.0 X 10.37	mm
Character Size (WxH)	4.84 x 9.63	mm
Character Font	5 x 8	---
Dot Pitch (WxH)	0.98 x 1.21	mm
Dot Size (WxH)	0.92 x 1.16	mm

INTERFACE PIN CONNECTIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
V _{SS}	V _{DD}	V _O	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	A	K

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
LCD Operating Voltage	V _{DD} - V _O (V _{LCD})	T = -20°C	-	4.9	-	V
		T = 0°C	-	4.8	-	V
		T = 25°C	-	4.7	-	V
		T = 50°C	-	4.6	-	V
		T = 70°C	-	4.2	-	V
Supply Voltage	V _{DD} - V _{SS} (Logic)	-	2.7 ^{*1}	5	5.5	V
Supply Current	I _{DD}	-	-	2	6	mA
Input Voltage	"HIGH" Level, V _{IH}	-	2.2	-	V _{DD}	V
	"LOW" Level, V _{IL}	-	0	-	0.6	V
Output Voltage	"HIGH" Level, V _{OH}	-	2.4	-	-	V
	"LOW" Level, V _{OL}	-	-	-	0.4	V

FEATURE

- BLUE STN LCD
- 6 o'clock viewing angle
- Negative mode
- Transmissive type
- Normal temperature operation (-20°C to +70°C)
- Array type yellow green LED backlight
- 5 x 7 DOTS with cursor
- Built-in controller (KS0066 OR equivalent)
- 2.7 – 5.5V logic power supply
- 5V LED power supply (with built in limit current resistor)
- 1/16 duty cycle, 1/5 bias
- Standard V_{LCD} series

* Note 1: If input logic voltage is less than LCD operating voltage V_{LCD}, -ve voltage input to V_O is required.