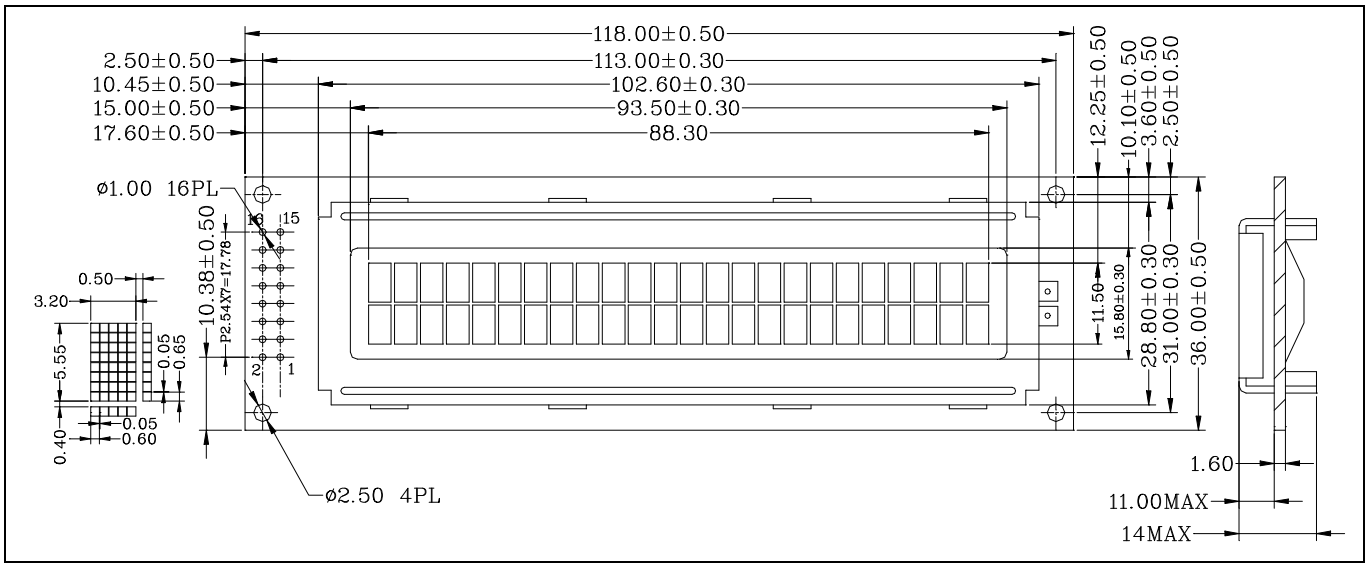
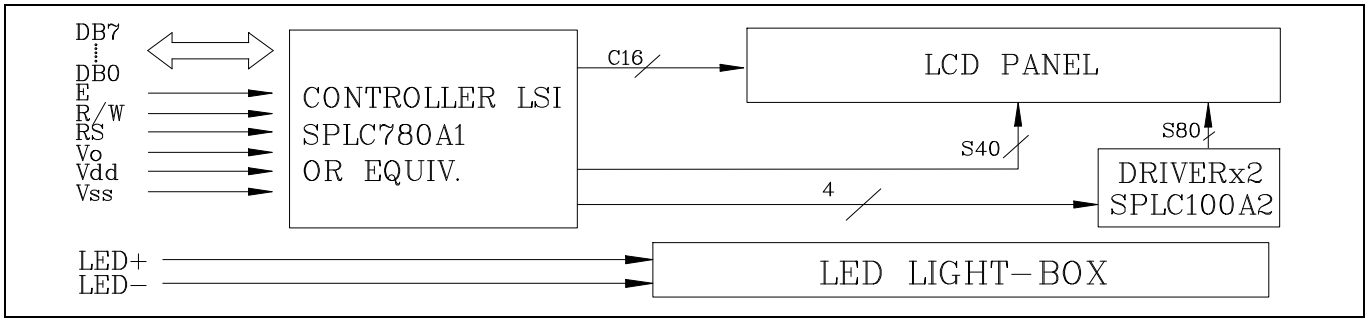
TQL242YPL-1

24 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	---	110	150	mA
* (With built on board current limited resistor version) *				

● MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (WxH)	118.0 x 36.0	mm
Viewing Area (WxH)	93.5 x 15.8	mm
Character Pitch (WxH)	3.70 x 5.95	mm
Character Size (WxH)	3.20 x 5.50	mm
Character Font	5 x 8	---
Dot Pitch (WxH)	0.65 x 0.70	mm
Dot Size (WxH)	0.60 x 0.65	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

- **STN yellow green LCD**
- **6 o'clock viewing angle**
- **Positive mode**
- **Transflective type**
- **Normal temperature operation (0°C to +50°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.

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