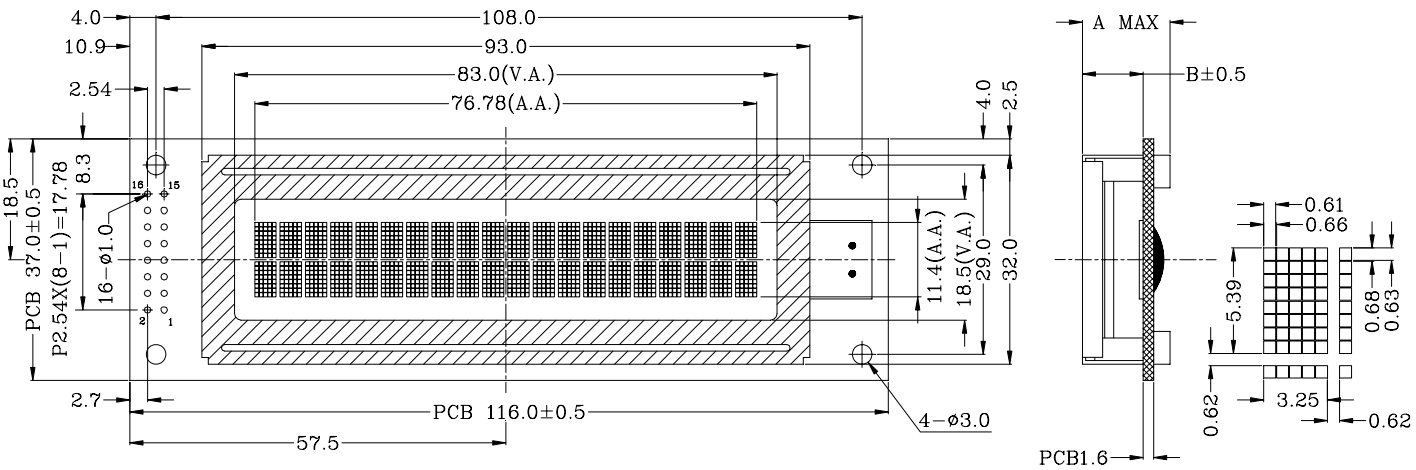
Outline Dimension



Character Type

Feature：

1、20x2 Characters
2、STN/TRANSFLECTIVE/POSITIVE/Y-G
3、Yellow-Green/ Bottom Backlight（LED）
4、Operating Temp.:-10℃～+60℃
5、1/16 duty cycle, 1/5 Bias
6、Built-in Controller（SPLC780D1 or equivalent）
7、Viewing angle: 6 o'clock

Absolute Maximum Rating：

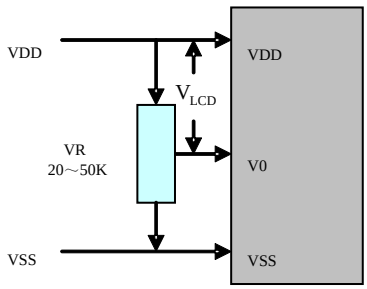
Item	Symbol	Standard value			Unit
		M_{IN}	T_{YP}	M_{AX}	
Power supply for logic	V_{DD}-V_{SS}	-0.3	--	7.0	V
Input voltage	V_I	-0.3	--	V_{DD} +0.3	V

Electrical Characteristic：

(VSS=0V, Ta = 25℃)

Parameter	Symbol	Condition	M_{IN}	T_{YP}	M_{AX}	Unit
Supply voltage for logic	V_{DD}	--	**4.8**	**5.0**	**5.2**	**V**
Supply current for logic	I_{DD}	--	--	**2**	--	**mA**
Operating voltage for LCD	V_{LCD}	**-10℃**	--	--	--	**V**
		+25℃	--	**4.7**	--	**V**
		+60℃	--	--	--	**V**
Supply voltage for Backlight	V_{BL}	--	--	**5.0**	--	**V**
Supply current for Backlight	I_{BL}	--	--	**170**	--	**mA**

Adjusting Display Contrast：



Note：Adjust V0 to VSS as an initial setting. When the module is operational, readjust V0 for optimal display appearance.

Interface Pin Connections：

Pin No.	Symbol	Level	Description
1	**VSS**	**0V**	Ground.
2	**VDD**	**+5.0V**	Supply voltage for logic operating.
3	**V0**	--	Adjusting voltage for LCD driving (variable).
4	**RS**	**H/L**	A signal for selecting registers: 1: Data Register (for read and write) 0: Instruction Register (for write), Busy flag-Address Counter (for read).
5	**R/W**	**H/L**	R/W = "H": Read mode. R/W = "L": Write mode.
6	**E**	**H/L**	An enable signal for writing or reading data.
7~14	**DB0~DB7**	**H/L**	8-bit bi-directional data bus.
15	**LED-**	**0V**	The backlight ground.
16	**LED-+**	**+5.0V**	Power supply for Backlight