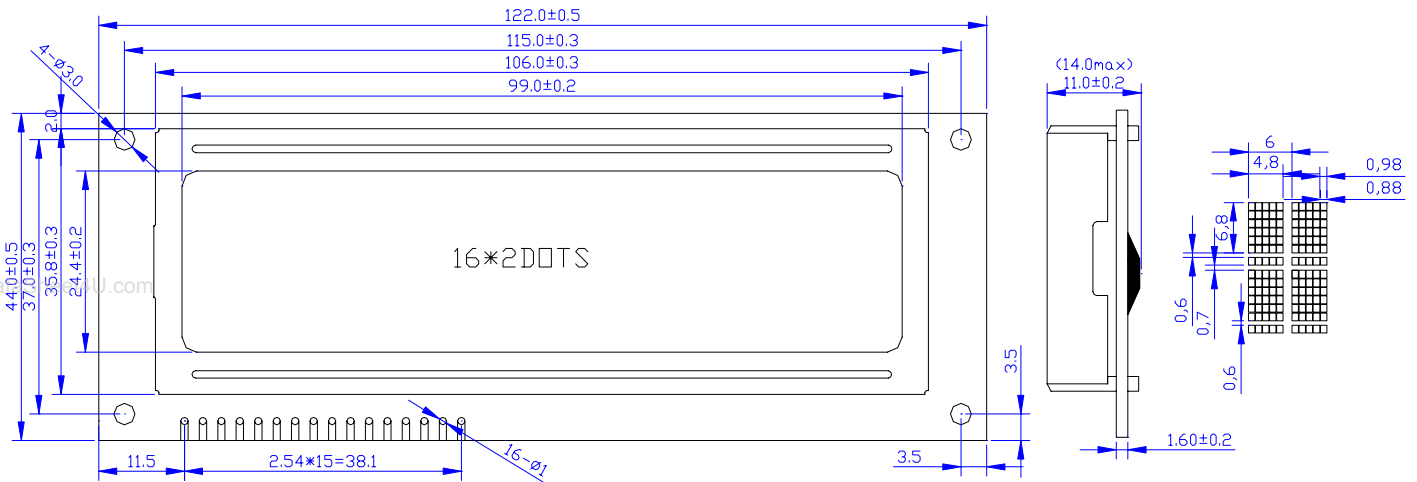


RT1602MSR(L)B

*16 Characters 2 lines *Controller LSI built-in *+5V single power supply

EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)	
module size-----	122.0Wx44.0Hx11.0(14.0)D mm
Effective display area-----	99.0Wx24.4H mm
Character size(5X8 dots) -----	4.8Wx6.8H mm
Character pitch -----	6.0WX7.4H mm
Dot size -----	0.88Wx1.05H mm
ABSOLUTE MAXIMUM RATINGS min max	
Power supply for logic(Vdd-Vss) -----	0 7.0V
power supply for LCD drive(Vdd-V0) ----	0 5.0V
Input voltage(Vi) -----	Vss VddV
Operating temperature(Ta) -----	0 60
Stroage temperature(Tstg)-----	-10 70
ELECTRICAL CHARACTERISTICS	
Ta=25 , Vdd=5.0V±0.5V	
Input 'high' voltage(ViH) -----	3.5Vmin.
Input 'low' voltage(ViL) -----	0.55Vmax.
Output 'high' voltage(VoH)(-IoH+0.1mA) --	3.75Vmin.
Output 'low' voltage(VoL)(IoL=1.2mA) ----	1.0Vmax.
Power supply current(Idd)(Vdd=5.0V) ---	2.0mAmax.
Drive method -----	1/16Duty , 1/5bias.

PIN CONNECTION			
Pin No.	Symbol	Lever	Function
1	Vss	—	0V
2	Vdd	—	+5V
3	Vo	—	—
4	RS	H/L	L:Instruction code input H:Data input
5	R/W	H/L	H:Data read
		H/L	L:Data write
6	E	H,H-L	Enable signal
7	D0	H/L	Data bus line *
8	D1	H/L	
9	D2	H/L	
10	D3	H/L	
11	D4	H/L	
12	D5	H/L	
13	D6	H/L	
14	D7	H/L	
15	LED+	+	Power supply for LED
16	LED-	-	Power supply for LED

BLOCK DIAGRAM

