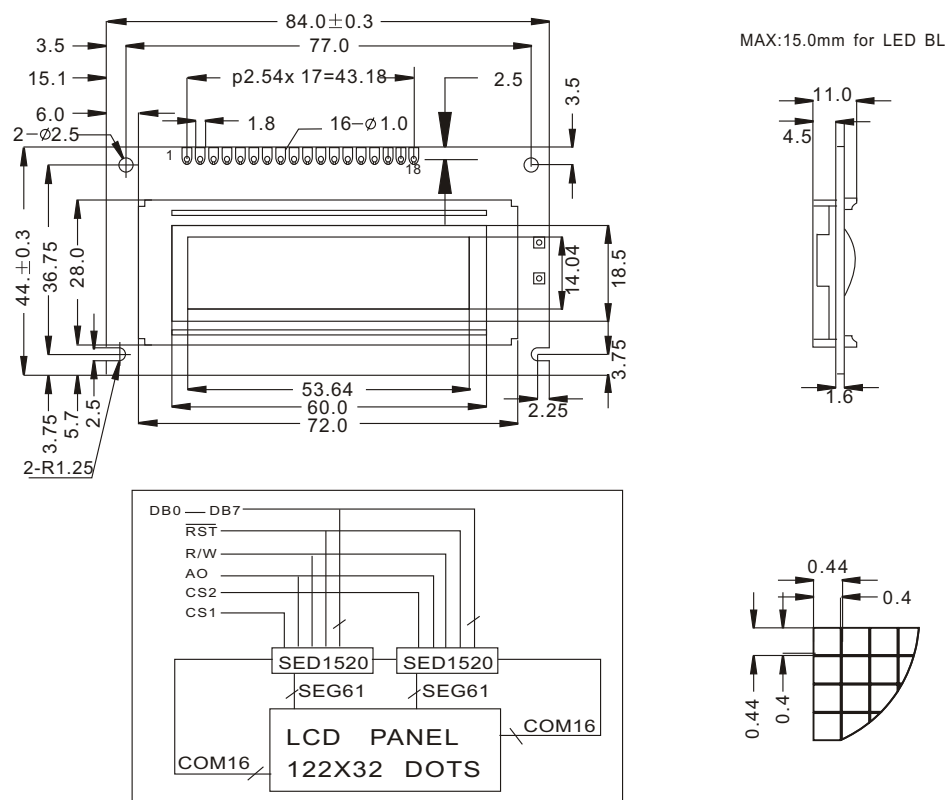


- *Display Format
122 X 32dots
- *Driving Method
*1/32duty
- *LCD Type
Yellow or gray STN
- *Backlight
LED/4.2VDC
EL/100VAC,400Hz



(Vdd = 5V ± 10%, GND = 0V, Ta = -20°C to +75°C)

Item		Symbol	Condition	Standard Value			Unit
				Min	Typ.	Max.	
Power Supply for Logic		Vdd-Vss	-	4.5	5.0	5.5	V
Input High Voltage		ViH	-	2.2	-	Vdd	V
Input Low Voltage		ViL	-	-0.3	-	0.6	V
Output high Voltage		VoH	IoH=0.2mA	2.4	-	-	V
Output Low Voltage		VoL	IoL=1.2mA	-	-	0.4	V
Current Consumption for Logic&LC Driving		Id*	Vdd=5.0V		2.0	3.0	mA
Operating Voltage for LCD		Vdd-Vo	Top=25℃	-	4.8	-	V
Response Time	Rise Time	Tr	Top=25℃	-	200	250	ms
	Decay Time	Td	φ=0° θ=0°	-	200	250	
Viewing Angle		φ 2-φ1	K≥2.0	60	-	-	Deg
Contrast Ratio		K	φ=0° θ=0°	4	-	-	-
Frame Frequency		fFLM		-	82.0	-	Hz

* : when all character font are displayed as “5”

Pin	Symbol	Description
1	Vss	Ground
2	Vdd	Power supply
3	V0	Contrast adjust
4	A0	Data/ command
5	CS1	Chip1 Select
6	CS2	Chip2 Select
7	R/W	H:read L:write
8	DB0	Data/ bit 0
9	DB1	Data/ bit 0
10	DB2	Data/ bit 2
11	DB3	Data/ bit 3
12	DB4	Data/ bit 4
13	DB5	Data/ bit 5
14	DB6	Data/ bit 6
15	DB7	Data/ bit 7
16	$\overline{\text{RST}}$	Reset
17	NC	
18	NC	

