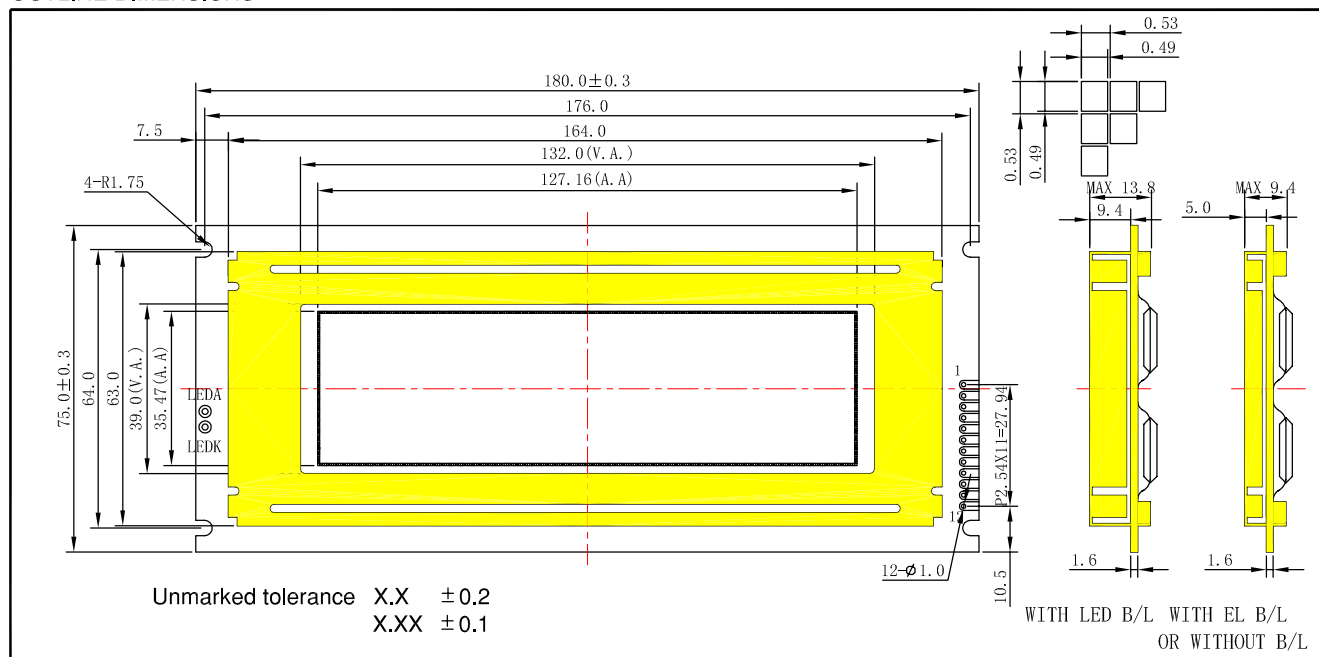
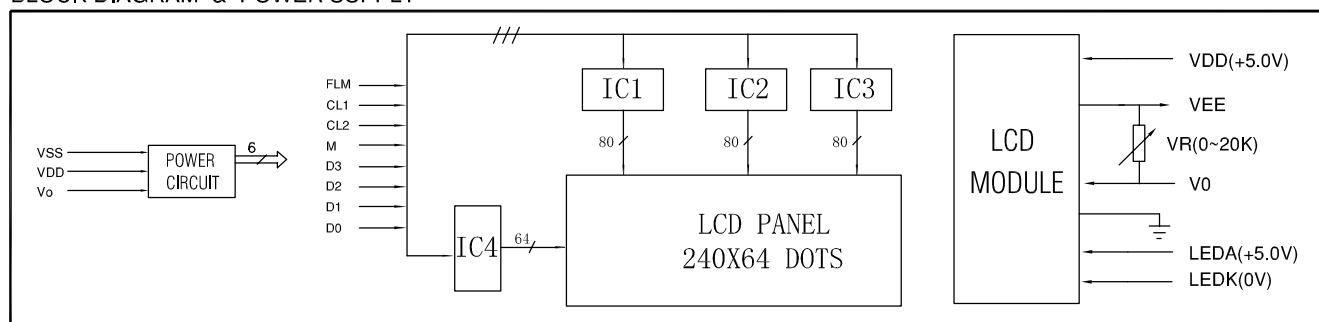


OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATIONS & FEATURE

Item	Normal Dimensions(mm)	FEATURE	
Module Size (W*H*T)	180.0x75.0x9.4/13.8	LCD Type	STN, FSTN
View Area (W*H)	132.0x39.0	LCD Colour	STN:Yellow-Green、Gray FSTN:Gray
DotsxDots (W*H)	240x64	View Angle	6 O'clock、12 O'clock
Dot Pitch (W*H)	0.53x0.53	Display Type	Positive Type、Negative Type
Dot Size (W*H)	0.49x0.49	Rear polarizer	Transmissive、Reflective、Transflective
---	---	Operating Temperature	0°C ~ 50°C、-20°C ~ 70°C
---	---	Backlight	LED:YELLOW EL:Green、Blue-Green、Blue Without

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25° C	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25° C	---	12.0	---	V
Supply Current	Idd	Ta=25° C, Vdd=5.0V	---	9.0	15.0	mA
Supply Current for Backlight(LED)	If	Ta=25° C, Vf=4.2V	---	100	---	mA

INTERFACE PIN CONNECTIONS

Pin No	Symbol	Level	Description
1	D3	H/L	Display data input
2	D2	H/L	Display data input
3	D1	H/L	Display data input
4	D0	H/L	Display data input
5	FLM	H/L	The signal indicate the beginning of each frame
6	M	H/L	Alternate signal for LCD driving waveform
7	CL1	D → L	Data latch pulse
8	CL2	H → L	Data shift clock pulse
9	VDD	---	Power supply for Logic(+5.0V)
10	VSS	---	Ground for Logic
11	Vo	---	Power supply for LCD drive
12	VEE	---	Negative voltage output

REMARK

Operating voltage option: 5.0V or 3.0V
Negative type LCD colour: Blue