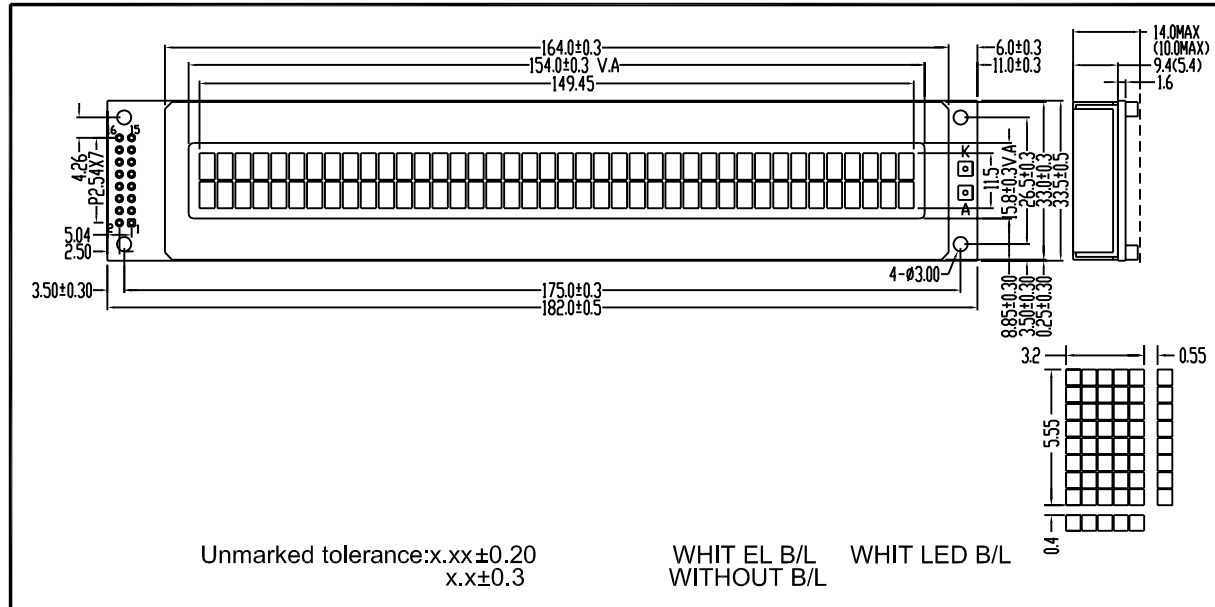


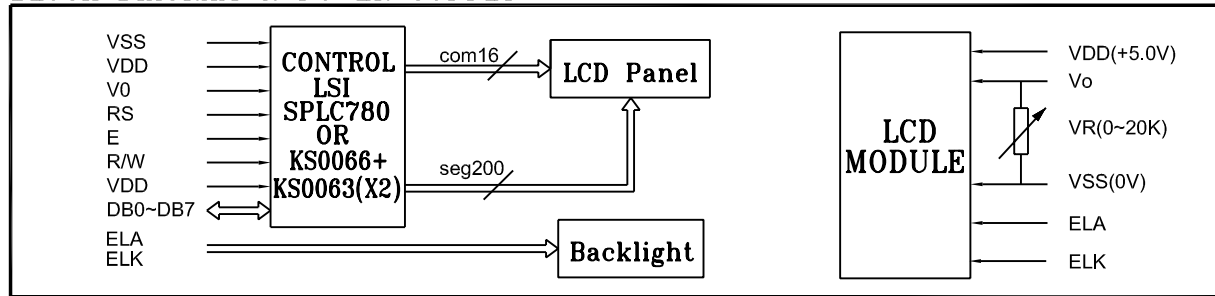
# LCD-DISPLAY YM-4002A Series

40X2 CHARACTERS  
1/16 DUTY, 1/5 BIAS

## OUTLINE DIMENSIONS



## BLOCK DIAGRAM & POWER SUPPLY



## MECHANICAL SPECIFICATION & FEATURE

Item	Normal Dimensions(mm)	FEATURE	
Module Size(W*H*T)	182.0X33.5X10.0/14.0	LCD Type	STN , TN , HTN , FSTN
View Area(W*H)	154.0X15.8	LCD Colour	STN:Yellow-Green , Grey Other:Gray
Character Pitch(W*H)	3.75X5.95	View Angle	6 O'Clock , 12 O'Clock
Character size(W*H)	3.20X5.55	Display Type	Positive Type , Negative Type
Character Font	5X8	Real polarizer	Transmissive , Reflective , Transflective
Dot Pitch(W*H)	0.65X0.70	Operating Temperature	-10°C~60°C , -20°C~70°C
Dot Size(W*H)	0.60x0.65	Backlight	LED:Yellow EL:Green,Blue-Green,blue Without

## ELECTRICAL CHARACTERISTICS

Item	Symbol	Symbol	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25°C	---	5.0	---	V
Operating Voltage LCD	Vlcd	Ta=25°C	---	4.7	---	V
Supply Current	Idd	Ta=25°C , Vdd=5.0V	---	2.0	3.0	mA
Supply Current for Backlight	If	Ta=25°C , Vf=4.2V	---	---	---	mA

## INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Level	Description
1	VSS	---	Ground for Logic
2	VDD	---	Power supply for Logic(+5.0V)
3	V0	---	Power supply for LCD drive
4	RS	H/L	Register selection ( H:DATA register , L:Instruction register )
5	R/W	H/L	Read/Write selection ( H:Read , L:Write )
6	E	H/L	Enable signal for LCM
7~14	DB0~DB7	H/L	Data Bus lines
15	A	---	Backlight(+5.0V)
16	K	---	Backlight(0V)

## REMARK

Operating voltage option : 5.0V or 3.0V  
CGROM font option : English Japanese Russian etc