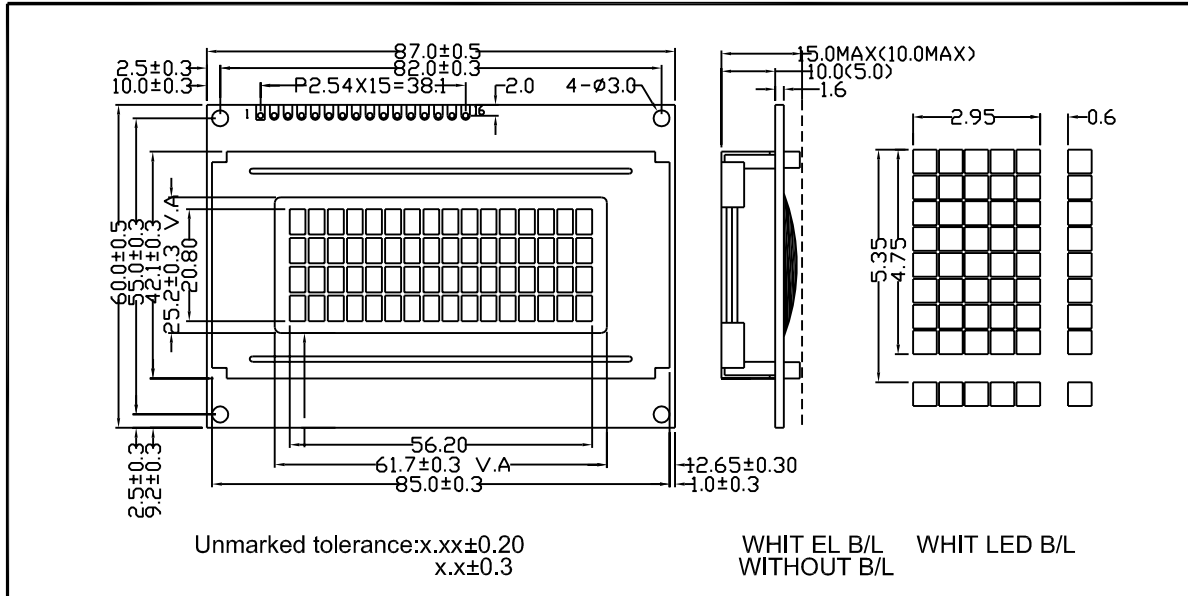


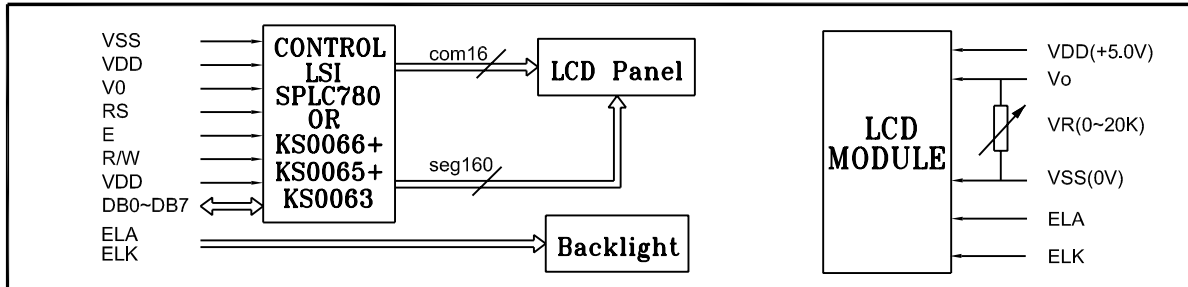
LCD-DISPLAY YM-1604A Series

16X4 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)	87.0X60.0X10.0/15.0	LCD Type	STN , TN , HTN , FSTN
View Area(W*H)	61.7X25.2	LCD Colour	STN:Yellow-Green , Grey Other:Gray
Character Pitch(W*H)	3.55X5.35	View Angle	6 O'Clock , 12 O'Clock
Character size(W*H)	2.95X4.75	Display Type	Positive Type , Negative Type
Character Font	5X8	Real polarizer	Transmlssive , Reflective , Transflective
Dot Pitch(W*H)	0.60X0.60	Operating Temperature	-10°C~60°C , -20°C~70°C
Dot Size(W*H)	0.55X0.55	Backlight	EL:Green , Blue-Green , blue , white 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	---	100	---	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