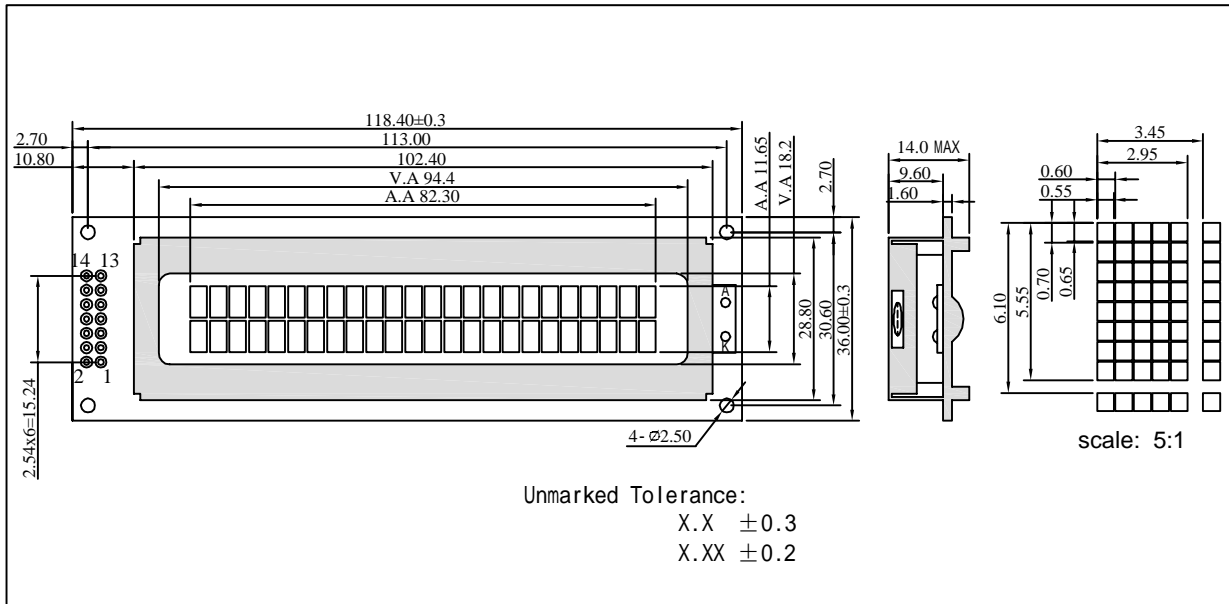


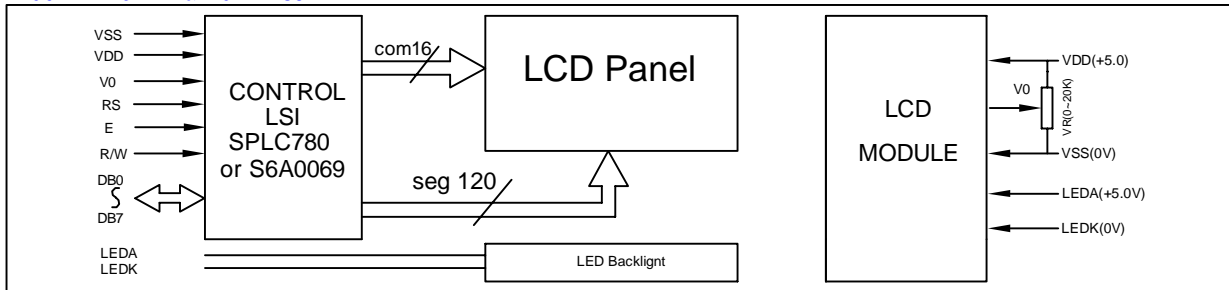
ZL2402A1 Series

24x2 CHARACTERS
1/16 DUTY, 1/5 BIAS
CHARACTER-COB

OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATIONS & FEATURE

item	Normal Dimensions(mm)	Feature	
Module Size(W*H*T)	118.4x36.0x14.0MAX	LCD Type	STN FSTN
View Area(W*H)	94.4x18.2	LCD Colour	STN:Yellow-Green ,Gray Other:Gray
Character Pitch(W*H)	3.45x6.10	View Angle	6 O'clock , 12 O'clock
Character Size(W*H)	2.95x5.55	Display Type	Positive Type,Negative Type
Character Font	5x8	Rear Polarizer	Transmissive,Reflective ,Transflective
Dot Pitch(W*H)	0.60x0.70	Operating Temperature	0 °C ~50 °C , -20 °C~70 °C
Dot Size(W*H)	0.55x0.65	Backlight	LED: Yellow, Bule,White,Green

ELECTRICAL CHARACTERISTICS

item	Symbol	Test Condition	Min.	Type.	Max.	Unit
Operating Voltage	Vdd	Ta=25 °C	---	5.0V	---	V
Operating Voltage for LCD	Vlcd	Ta=25 °C	---	4.6V	---	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
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 → L	Enable signal for LCM
7~14	DB0~DB7	H/L	Data Bus Lines

REMARK

- Negative type LCD colour : Bule.
- CGROM font option:English,Japanese,Russian,Etc.
- File Version:01