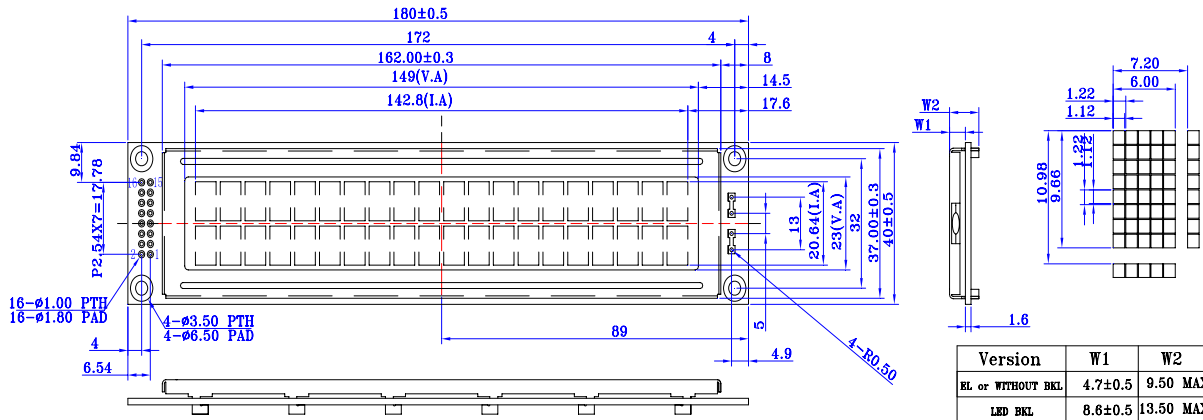
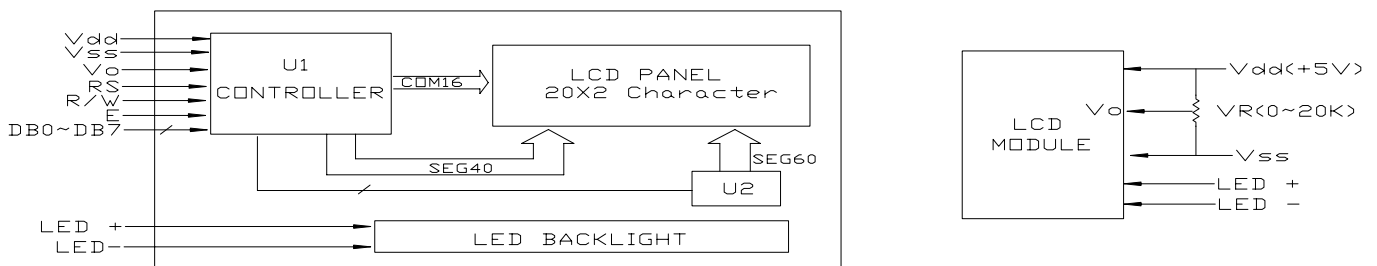


◆OUTLINE DIMENSION



◆BLOCK DIAGRAM & POWER SUPPLY



◆MECHANICAL SPEC. & FEATURES

Item	Dimension(mm)	Features	
Module Size(W×H×T)	180.0×40.0×9.5/13.5	LC Fluid	STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W×H)	149.0×23.0	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W×H)	1.12×1.12	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	1.22×1.22	Display Type	Positive or Negative
Character Size(W×H)	6.00×9.66	Backlight	LED (Optional)
Character Pitch(W×H)	7.20×10.98	Operating Temp.	0℃~50℃ or -20℃~70℃
		Controller	S6A0069 or Equivalent

◆INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vss	Ground for logic	6	E	Enable signal
2	Vdd	Power supply for logic	7~14	DB0~DB7	Data bus lines
3	Vo	Power supply for LCD	15	A	BKL +
4	RS	Register selection (H:Data, L:Instruction)	16	K	BKL -
5	R/W	Read/Write selection (H: R, L: W)			

◆ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25℃	---	5.0	---	V
Operating Voltage for LCD	Vled	Ta=25℃	---	4.5	---	V
Supply Current	Idd	Ta=25℃, Vdd=5.0V	---	2.0	3.0	mA
Supply Voltage for LED	Vf	Ta=25℃, R=6.8Ω	---	4.2	---	V
Supply Current for LED	If	Ta=25℃, Vf=4.2V	---	400	---	mA