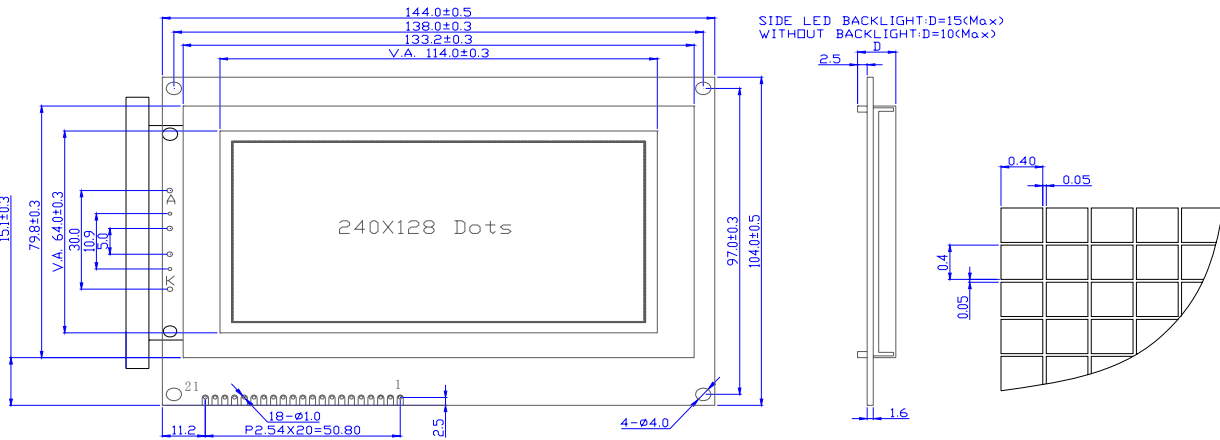
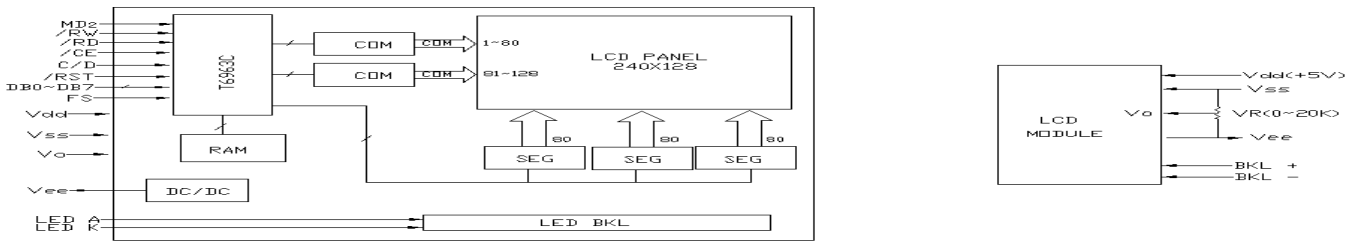




◆ **OUTLINE DIMENSION**



◆ **BLOCK DIAGRAM & POWER SUPPLY**



◆ **MECHANICAL SPEC. & FEATURES**

Item	Dimension(mm)	Features	
Module Size(W×H×T)	144.0×104.0×MAX15	LC Fluid	TN,STN (Yellow-green,Gray, Blue),FSTN
Viewing Area(W×H)	114.0×64.0	Polarizer	Reflective,Transflective,Transmissive
Dot Size(W×H)	0.40×0.40	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.45×0.45	Display Type	Positive or Negative
Dot* Dot	240 × 128	Backlight	LED OR CCFL
		Operating Temp.	-20℃~+70℃
		Controller	T6963C or Equivalent

◆ **INTERFACE PIN CONNECTIONS**

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vss	Ground for logic	15	CE	Enable Signal
2	Vdd	Power supply for logic	16	/RST	Reset signal
3	Vo	Power supply for LCD	17	Vee	Negative Voltage
4	C/D	Register Selection	18	MD2	Columns Selection
5	/RD	Read Signal	19	FS	Font Selection
6	/WR	Write Signal	20	SLA	backlight(+)
7~14	DB0~DB7	Data bus lines	21	SLK	backlight(-)

◆ **ELECTRICAL CHARACTERISTICS**

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25℃	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25℃	---	18.5	---	V
Supply Current	Idd	Ta=25℃, Vdd=5.0V	---	4.0	8.0	mA
Supply Voltage for LED	Vf	Ta=25℃, R=7.2Ω	---	4.2	---	V
Supply Current for LED	If	Ta=25℃, Vf=4.2V	---	200	---	mA