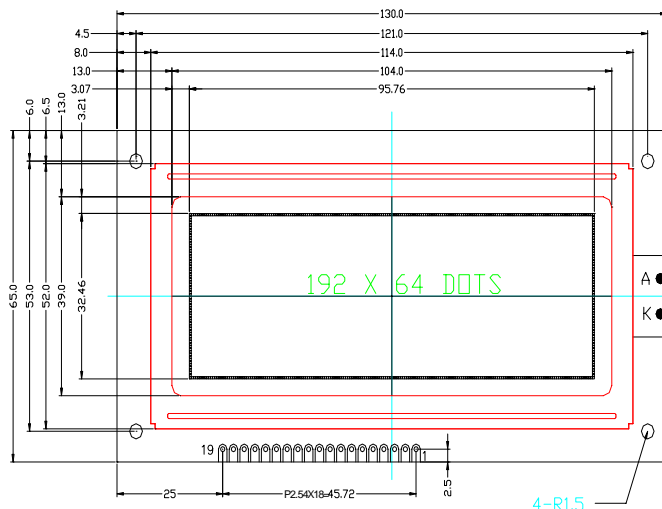
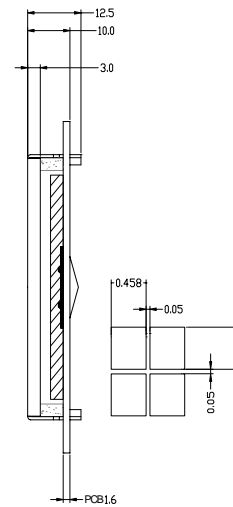




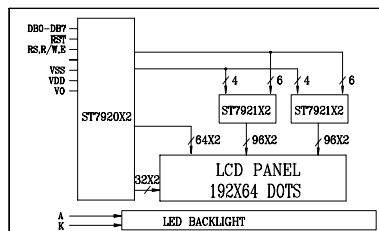
• EXTERNAL DIMENSIONS:



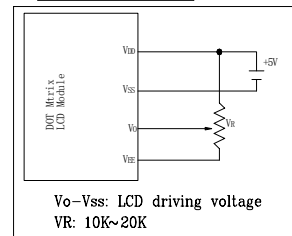
[ ] For LED Backlight



• BLOCK DIAGRAM:



• POWER SUPPLY:



MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
Module Size (WxHxT)	130.0X65.0X11.5	mm
Viewing Area (WxH)	104.0X39.0	mm
Dot Number (WxH)	192X64	dots
Dot Size (WxH)	0.458X0.458	mm
Dot Pitch (WxH)	0.05x0.05	mm
LCD MODE	STN(Y/G,Gray,Blue),FSTN	

PIN ASSIGNMENT

PIN	SYMBOL	FUNCTION
1	Vss	Power Supply (0V)
2	Vdd	Power Supply (+5V)
3	Vo	Contrast Adjust
4	/RST	Reset Singal
5	RS	Data/Instruction Register Select
6	R/W	Read/Write select
7	CS1	Enable Signal
8	CS2	Enable Signal
9	PSB	Select I/O Serial=L,paractic=H
10~17	DB0~DB7	Data bus Line
18	BLA	Back light Power Supply(+)
19	BLK	Back light Power Supply(-)

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Power Supply (logic)	Vdd-Vss	-0.3	7.0	V
Power Supply (LCD)	Vdd-Vo	0.3	15.0	V
Input Voltage	Vi	-0.3	Vdd+0.3	V
Operating Temperature	Topr	0	50	°C
Storage Temperature	Tstg	-20	70	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply (logic)	Vdd	-	4.5	5.0	5.5	V
Supply Current (logic)	Idd	VDD=5.0V	3.0	-	-	mA
Driving Voltage (LCD)	Vdd-Vo		5.0	5.5	6.0	V
Driving Current (LCD)	Ilcd		0	2	-	mA
Input Voltage "H"	Vih		2.2	-	Vdd	V
Input Voltage "L"	Vil	-0.3	-	0.6	V	
Output Voltage "H"	Voh	Ioh=-0.205mA	2.4	-	-	V
Output Voltage "L"	Vol	Iol=1.2mA	-	-	0.4	V

LED BACKLIGHT SPECIFICATIONS(SIZE TYPE)

PARAMETER	TYP.	ITEM	TYP.
Forward Voltage	4.2V	Power Dissipation	1134mW
Forward Current	270mA	Emission Wavelength	nm