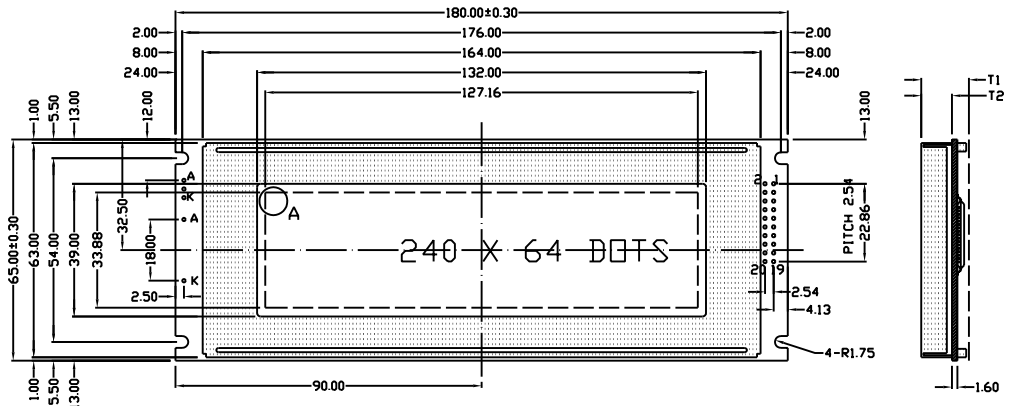


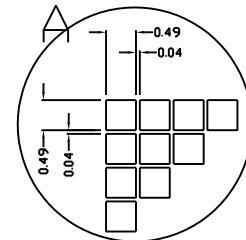
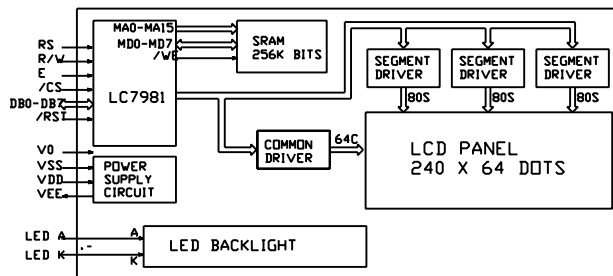
240 X 64 DOTS

OPTIONS

- * LCD PANEL
Yellow/Green
or Gray STN
- * View Angle
12H or 6H
- * Power Supply
Single Power
Dual Power
- * Backlight
EL
LED
CCFL



* FOR LED BACKLIGHT
TH1=14.0MAX TH2=9.0MAX
* FOR EL OR NO BACKLIGHT
TH1=11.0MAX TH2=6.0MAX



MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
Overall Size	180Wx65.0Hx9.2T(BL13.5T)	mm
Viewing Area	134.0Wx39.0H	mm
Dot Number	240Wx64H	dots
Dot Size	0.49Wx0.49H	mm
Dot Pitch	0.53Wx0.53H	mm

PIN ASSIGNMENT

PIN	SYMBOL	FUNCTION
1	Vss	Power Supply(GND)
2	Vdd	Power Supply(+5V)
3	Vo	Operating Voltage for LCD
4	RS	Command/Data Select
5	R/W	Data Read from T6963C
6	E	Chip Enable
7-14	DB0-DB7	Data Bus Line
15	/CS	Chip Select
16	/RST	Reset
17	VEE	Negative Voltage Output
18	NC	No Connect
19,20	LEDA, LEDK	Power Supply For LED Backlight

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	MAX.	UNIT
Power Supply (Logic)	Vdd	-0.3	7.0	V
Power Supply (LCD)	Vdd-Vee	0	22	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, Vdd=5V±0.25V)

ITEM	SYMBOL	MIN.	MIN.	MAX.	UNIT
Power Supply(Logic)	Vdd	4.5	5.0	5.5	V
Supply Current	Idd	2.0	—	—	mA
LCD Driving Voltage	Vdd-Vo	-	13.0	-	V
Input Voltage "H"	Vih	2.2	—	Vdd	V
Input Voltage "L"	Vil	—	—	0.6	V
Output Voltage "H"	Voh	2.4	—	—	V
Output Voltage "L"	Vol	—	—	0.4	V

LED BACKLIGHT SPECIFICATIONS

ITEM	TYP.	ITEM	TYP.
Forward Voltage	4.2V	Power Dissipation	4200mW
Forward Current	1000mA	Emission Wavelength	570nm