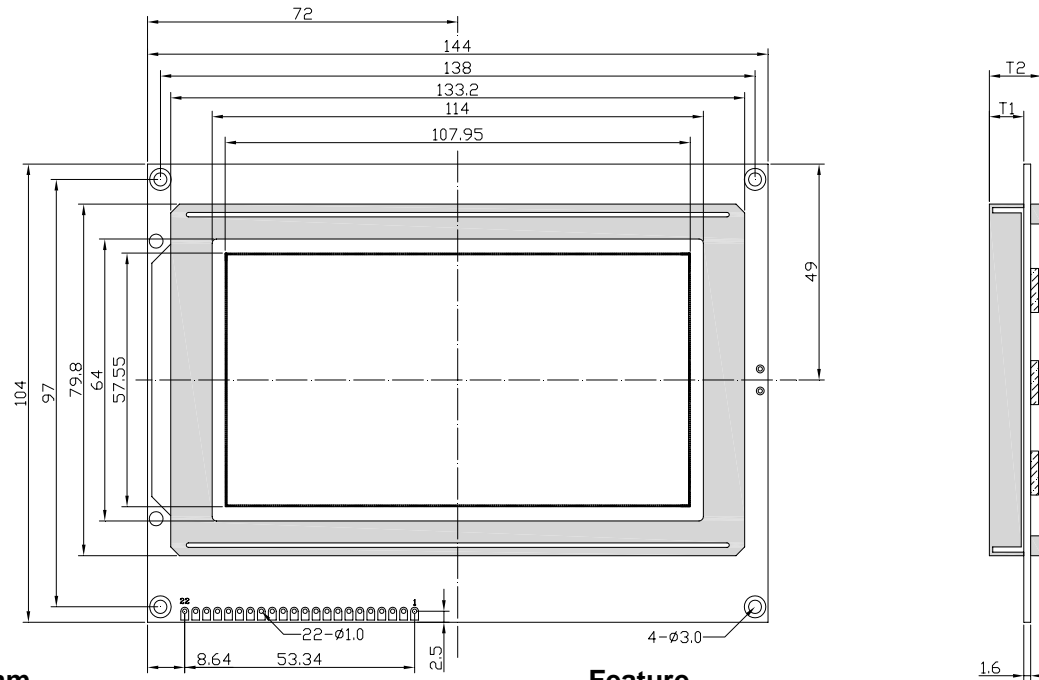
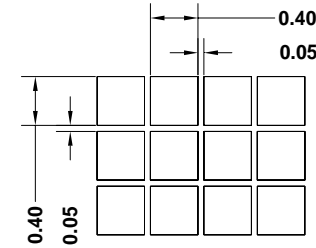


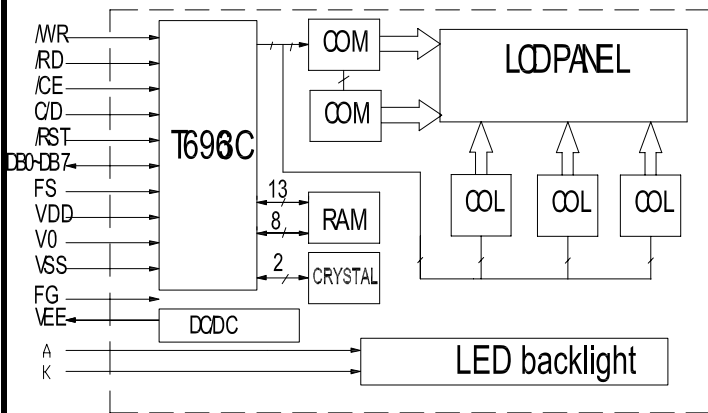
Pin	Symbol
1	VSS
2	VDD
3	V0
4	C/D
5	RD
6	WR
7~14	DB0~DB7
15	CE
16	RES
17	VEE
18	MD2
19	FS
20	LED+
21	LED+
22	LED-



### DOTS DETAIL



### Block diagram



### Feature

1. 240dots X 64dots matrix.
2. Built-in controller ( T6963C )
3. Interface with 8-bit ;5V power supply
4. 5V;1/64Duty cycle, 1/9Bias.
5. Display Mode & Backlight Variations.
6. ROHS Compliant

### Mechanical thickness

LCD module	T1	T2	Unit
Without or EL	4.8	10.0	mm
Edge backlight	8	12.5	mm
Bottom backlight	---	---	mm

### Mechanical data

Item	Standard	Unit
Module size	144.0X104.0	mm
View area	114.0X64.0	mm
Dot size	0.40X0.40	mm
Area size	107.95X57.55	mm

### Maximum Absolute Power Ratings

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Input voltage	V <sub>DD</sub>	-0.3	---	5.5	V
Power supply	V <sub>in</sub>	-0.3	---	V <sub>DD</sub>	

### Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Operating voltage	V <sub>DD</sub>	V <sub>DD</sub> =5.0V	4.5	5.0	5.5	V
Operating current	I <sub>DD</sub>	V <sub>DD</sub> =5.0V	---	15	25	mA
Recommended LCD driving voltage for normal temp module	V <sub>LCD</sub>	T <sub>A</sub> =+25	---	17.2	---	V
		T <sub>A</sub> =0	---	17.5	---	
		T <sub>A</sub> =-20	---	17.9	---	
Backlight voltage	V <sub>LED</sub>	Y-G	---	3.1	---	V
Backlight current	I <sub>LED</sub>	V <sub>LED</sub> =3.1V	---	120	---	mA
Operating temperature	T <sub>o</sub>	---	-20	---	70	
Storage temperature	T <sub>S</sub>	---	-30	---	80	