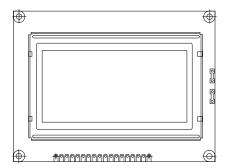




# 128 x 64 Dots Graphic LCD



MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	93.0 x 70.0	mm					
Viewing Area	72.0 x 40.0	mm					
Mounting Hole	88.0 x 65.0	mm					
Dot Pitch	0.52 x 0.52	mm					

#### **FEATURES**

- Character mode:
   Display BIG5 or GB Chinese font (16 x 16 dots) and ASCII code (8 x 16 dots)
- Graphic mode: 128 x 64 dots
- Built-in controller (ST7920)
- + 5V power suppy
- 1/32 duty cycle
- · LED can be driven by A and K
- N.V. option

ABSOLUTE MAXIMUM RATING									
ITEM	SYMBOL	STANDARD VALUE UNIT							
		MIN.	TYP.	MAX.					
Power Supply	VDD-VSS	4.75	5.0	5.25	V				
Input Voltage	VI	- 0.3	_	VDD	V				

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS								
ITEM	SYMBOL	CONDITION	SI	UNIT				
			MIN.	TYP.	MAX.			
Input Voltage	VDD	L level	0.7V <sub>DD</sub>	_	V <sub>DD</sub>	V		
	VIO	H level	0	_	0.3V <sub>DD</sub>	V		
Supply Current	IDD	VDD = 5V	_	3.6	3.9	mA		
Recommended LC Driving		0°C	9.7	10.2	10.7			
Voltage for Normal Temp.	VDD-V0	25°C	8.9	9.4	9.9	V		
Version Module		50°C	8.6	9.1	9.6			
LED Forward Voltage	VF	25°C	_	4.2	4.6	V		
LED Forward Current	IF	25°C	_	330	660	mA		
EL Power Supply Current	IEL	Vel =110VAC;400Hz	_	_	5.0	mA		

DISPLAY CHARACTER ADDRESS CODE:																
Display Position	1	2	3	4	5	6	7	8	9	10	11	12	13	_	_	16
DD RAM Address	80	81														8F
DD RAM Address	90	91														9F
DD RAM Address	A0	A1														AF
DD RAM Address	B1	B0														BF

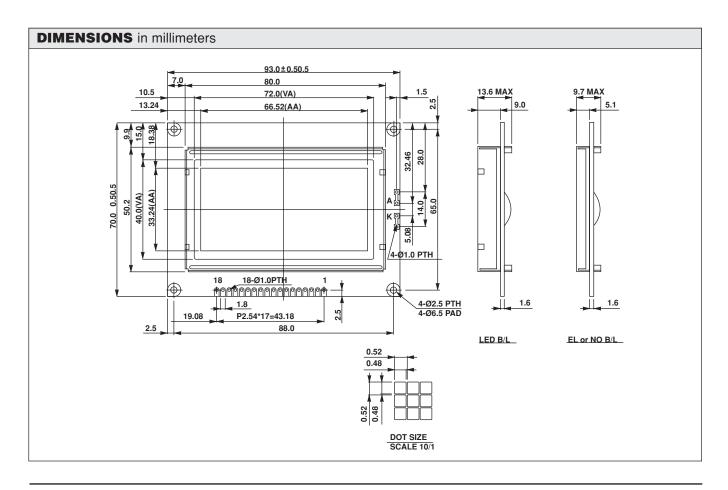
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#### 128 x 64 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION					
1	Vss	GND					
2	Vdd	Power Supply (+ 5V)					
3	NC	NO Connection					
4	RS	Registor Select Signal					
5	$R/\overline{W}$	Data Read/Write					
6	Е	H  o L Enable Signal					
7	DB0	Data Bus Line					
8	DB1	Data Bus Line					
9	DB2	Data Bus Line					
10	DB3	Data Bus Line					
11	DB4	Data Bus Line					
12	DB5	Data Bus Line					
13	DB6	Data Bus Line					
14	DB7	Data Bus Line					
15	A	Power Supply for B/L					
16	К	Power Supply for B/L					
17	RST	Reset LCD Module					
18	Vout	Negative Voltage Output					





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