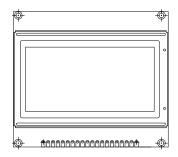




# 128 x 64 Dots Graphic LCD



#### **FEATURES**

- Built-in controller (KS0108 KS0108 or Equivalent)
- + 5V power suppy
- 1/64 duty cycle
- N.U. option

MECHANICAL DATA				
ITEM	M STANDARD VALUE			
Madula Dimanajan	90 0 v 70 0			
Module Dimension	80.0 x 70.0	mm		
Viewing Area	72.0 x 40.0	mm		
Dot Size	0.48 x 0.48	mm		
Dot Pitch	0.52 x 0.52	mm		

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STAN	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	STANDARD VALUE		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	_	300	660	mA
EL Power Supply Current	IEL	Vel =110VAC;400Hz	_	_	5.0	mA

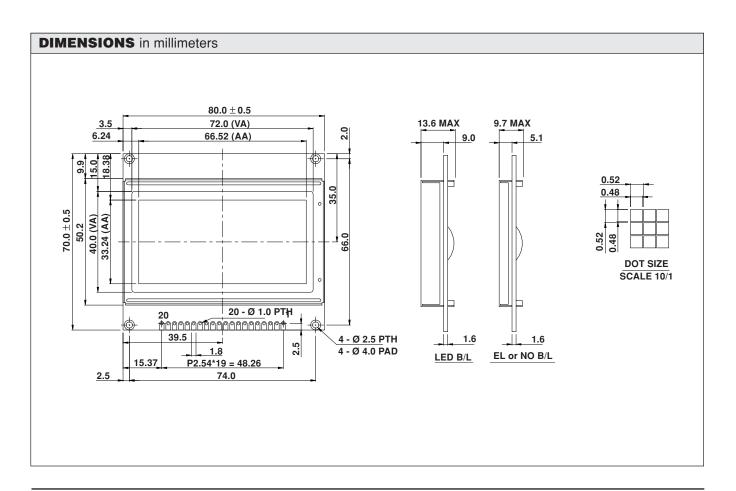
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#### 128 x 64 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION		
1	Vss	GND		
2	Vdd	Power Supply (+ 5V)		
3	Vo	Contrast Adjustment		
4	D/L	Data/Instruction		
5	R/W	Data Read/Write		
6	E	H →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	CS1	Chip Select for IC1		
16	CS2	Chip Select for IC2		
17	RST	Reset		
18	Vee	Negative Voltage Output		
19	A	Power Supply for LED (4.2V)		
20	K	Power Supply for LED (0V)		





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