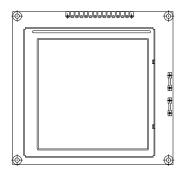




# 160 x 160 Dots Graphic LCD



#### **FEATURES**

- · No Built-in controller
- + 5V power supply
- 1/160 duty cycle
- 4-Bit parallel or 1-Bit serial interface mode

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	89.2 x 85.0	mm			
Wodule Dimension	69.2 X 65.0	mm			
Viewing Area	62.0 x 62.0	mm			
Dot Size	0.34 x 0.34	mm			
Dot Pitch	0.38 x 0.38	mm			

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE UN			
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.52	٧
Input Voltage	VI	- 0.3	_	VDD	٧

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	SI	ANDARD VALU	JE	UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	0.7V <sub>DD</sub>	_	$V_{DD}$	V
	VIO	H level	_	_	0.3V <sub>DD</sub>	V
Supply Current	IDD	VDD = 5V	_	1.5	3.0	mA
Recommended LC Driving		- 20°C	16.5	18.0	19.5	
Voltage for Normal Temp.	VDD-V0	25°C	15.5	17.0	18.5	V
Version Module		60°C	14.5	16.0	17.5	
LED Forward Voltage	VF	25°C	_	4.2	4.6	V
LED Forward Current	IF	25°C	_	500	1000	mm
EL	IEL	Vel = 110VAC; 400Hz	_	_	5.0	mA

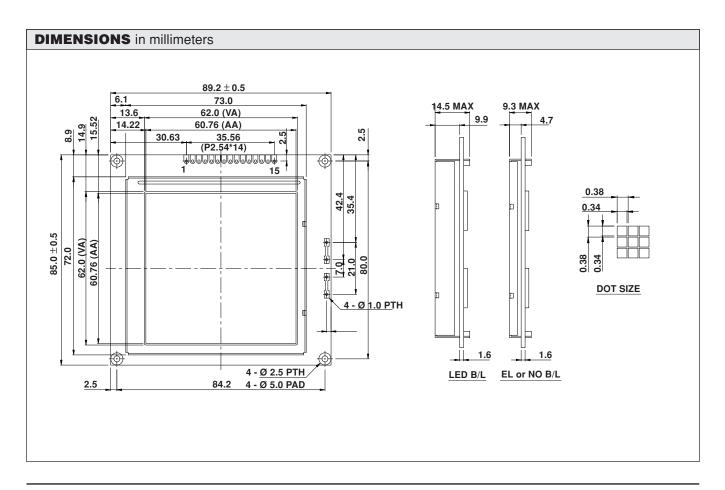
### LCD-160G160A

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#### 160 x 160 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION
1	Vss (GND)	Ground
2	M	Control signal for A.C.driving
3	FLM	The FLM Signal Indicates the Beginning of each Display Cycle
4	CL1	The CL1 Latches the Serial Data in Shift Register
5	CL2	Clock Signal for Shifting the Serial Data
6	DB3	Data Bus Line
7	DB2	Data Bus Line
8	DB1	Data Bus Line
9	DB0	Data Bus Line
10	Vee	Power Supply for LCD Driving
11	Vdd	Power Supply (+ 5V)
12	Vo	Contrast Adjustment
13	DISPOFF	Controls Display off, 0: off, 1: on
14	A	Power Supply for B/L
15	К	Power Supply for B/L





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