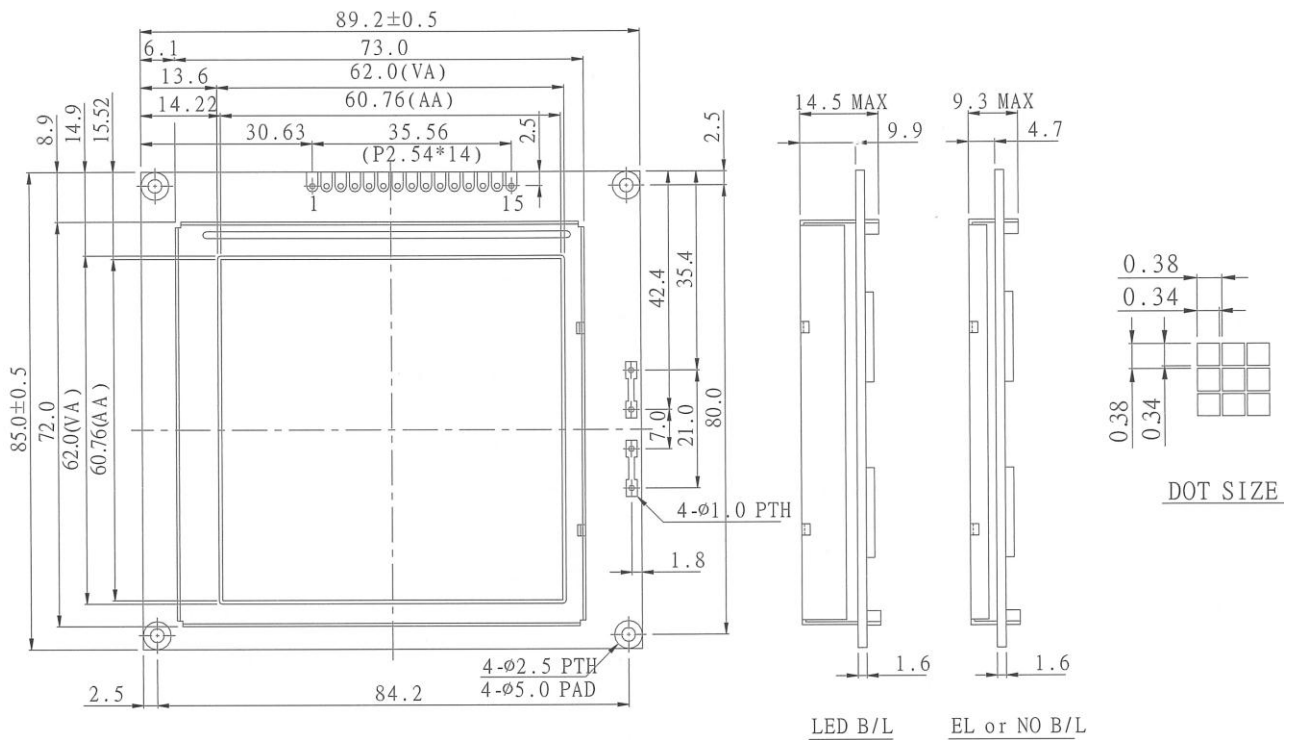


MSG160160A

Graphic 160x160 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



Feature		
1. No controller		
2. +5V Power supply		
3. 1/160 duty cycle		
Pin	Symbol	Function
1	Vss	GND
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 of; 0=off 1=on
14	A	Power supply for B/L (+)
15	K	Power supply for B/L (-)

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	89.2 x 85.0	mm			
Viewing Area	62.0 x 62.0	mm			
Mounting Hole	84.2 x 80.0	mm			
Dot Size	0.34 x 0.34	mm			
Dot Pitch	0.38 x 0.38	mm			
Absolute Maximum Rating					
Item	Symbol	Standard Value			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 V, Vdd=5.0 V					

Electronical Characteristics						
Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd	L level	0.7Vdd	---	Vdd	V
	Vio	H level	0	---	0.3Vdd	
Supply Current	Idd	Vdd=+5V	---	1.5	3.0	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	16.5	18.0	19.5	V
		0°C	16.3	17.8	19.3	
		25°C	15.5	17.0	18.5	
		50°C	14.5	16.0	17.5	
		70°C	14.3	15.8	17.3	
See Specification for Backlight information.						

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