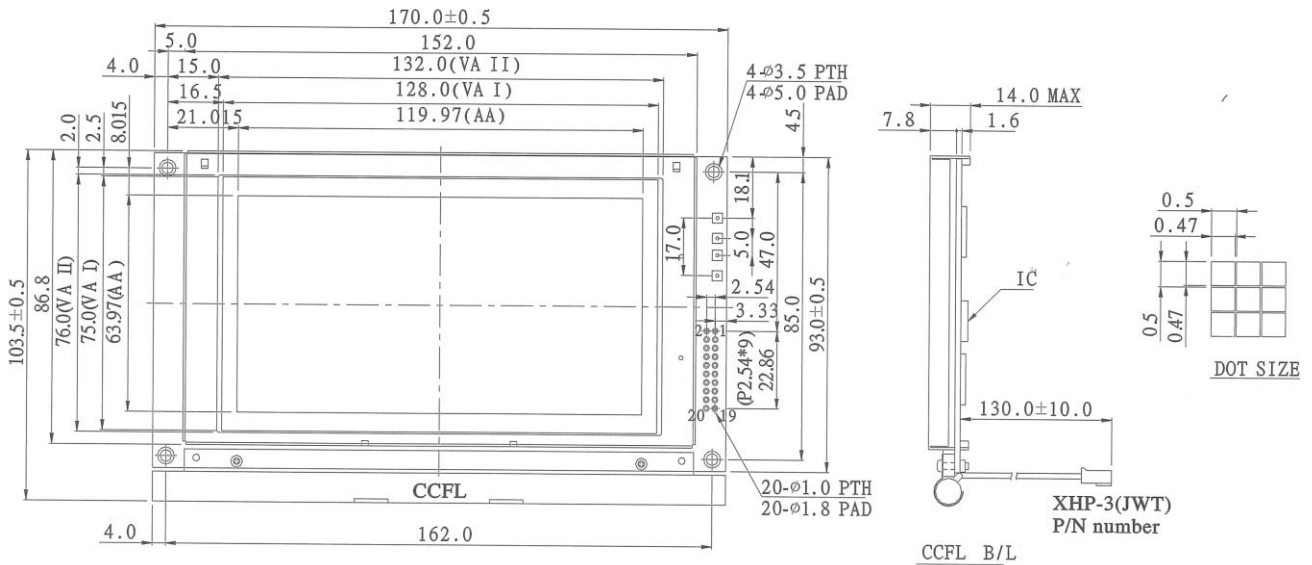


MSG240128A

Graphic 240x128 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



VA I is effective area of LCD.
VA II is window of bezel.

Feature		
1. Built-in controller RA6963		
2. 1/128 duty cycle		
3. Built-in N.V. (option)		
4. 24 Pins optional		
Pin	Symbol	Function
1	FGND	Frame GND (connected to bezel)
2	Vss	GND
3	Vdd	Power supply for logic circuit
4	VO	Contrast Adjustment
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	C/D	Code / Data
9	NC/Vee	No connection / Negative Voltage output
10	RST	Controller reset
11	DB0	Data bus line
12	DB1	Data bus line
13	DB2	Data bus line
14	DB3	Data bus line
15	DB4	Data bus line
16	DB5	Data bus line
17	DB6	Data bus line
18	DB7	Data bus line
19	FS	Font selection
		Font selection
20	RV	Reverse

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	170.0 x 103.5	mm			
Viewing Area	132.0 x 76.0	mm			
Mounting Hole	162.0 x 85.0	mm			
Dot Size	0.47 x 0.47	mm			
Dot Pitch	0.50 x 0.50	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	0.7 _{Vdd}	---	Vdd	V
	Vio	H level	---	---	0.3 _{Vdd}	V
Supply Current	Idd	Vdd=5V	---	23	---	mA
Recommended LC Driving Voltage for Normal Temperature Version module	Vdd-V0	0°C	19.1	19.5	20.1	V
		25°C	18.1	18.5	19.1	
		50°C	17.1	17.5	18.1	

See Specification for Backlight information.

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