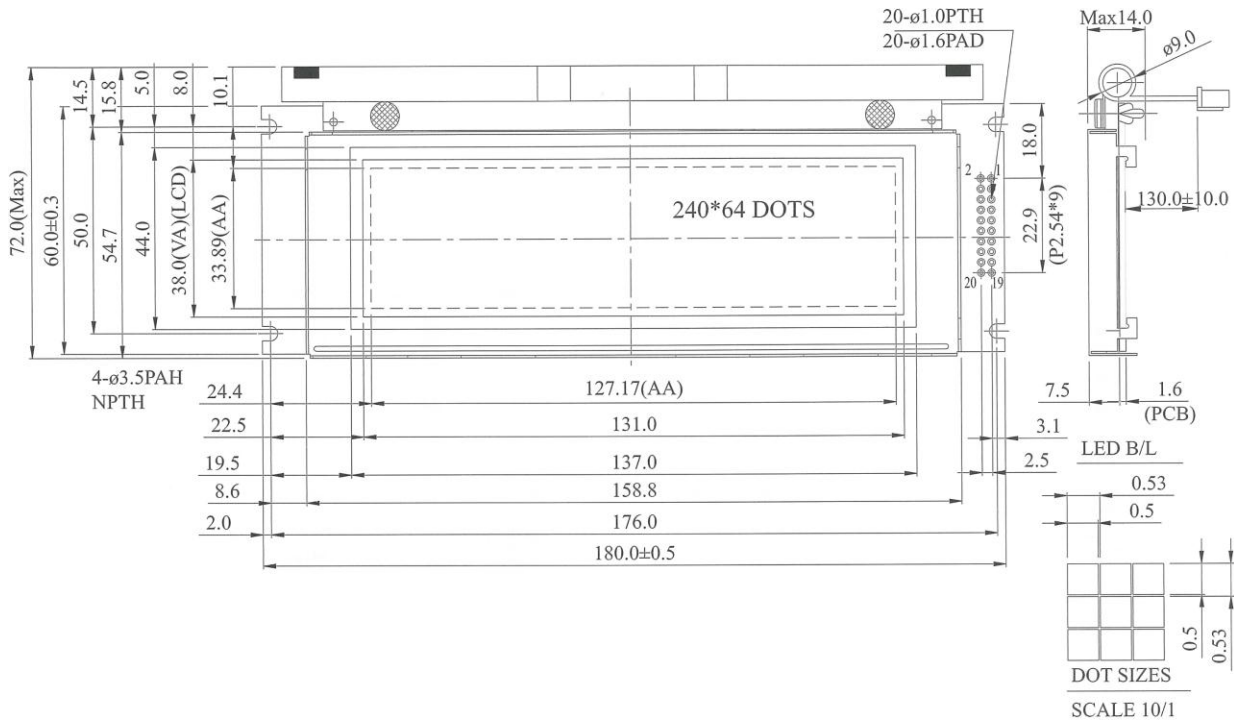


MSG24064E

Graphic 240x64 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



Feature		
1. Built-in controller RA6963		
2. 1/64 duty cycle		
3. Built-in N.V. (option)		
Pin	Symbol	Function
1	FG	Frame Ground (connected to bezel)
2	Vss	Power supply (GND)
3	Vdd	Power supply (+5V)
4	Vee/ Vo	Contrast Adjustment
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	C/D	Command/ data read/ write
9	NC	No connection
10	Reset	Reset signal
11	DB0	Data busline
12	DB1	Data busline
13	DB2	Data busline
14	DB3	Data busline
15	DB4	Data busline
16	DB5	Data busline
17	DB6	Data busline
18	DB7	Data busline
19	FS	Font selection
		FS="H", 6x8 character font
		FS="L", 8x8 character font
20	MS	Reverse

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	180.0 x 72.0 x 14.0 (Max)	mm			
Viewing Area	131.0 x 38.0	mm			
Mounting Hole	176.0 x 50.0	mm			
Dot Size	0.50 x 0.50	mm			
Dot Pitch	0.53 x 0.53	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	---	---	0.3	V
	Vfo	H level	0.7Vdd	---	Vdd	
Supply Current	Idd	Vdd=+5V	13.0	18.5	21.0	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	13.0	13.5	14.1	V
		0°C	12.5	13.1	13.7	
		25°C	12.1	12.7	13.3	
		50°C	11.1	12.3	13.0	
		70°C	9.1	11.6	12.8	

See Specification for Backlight information.

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