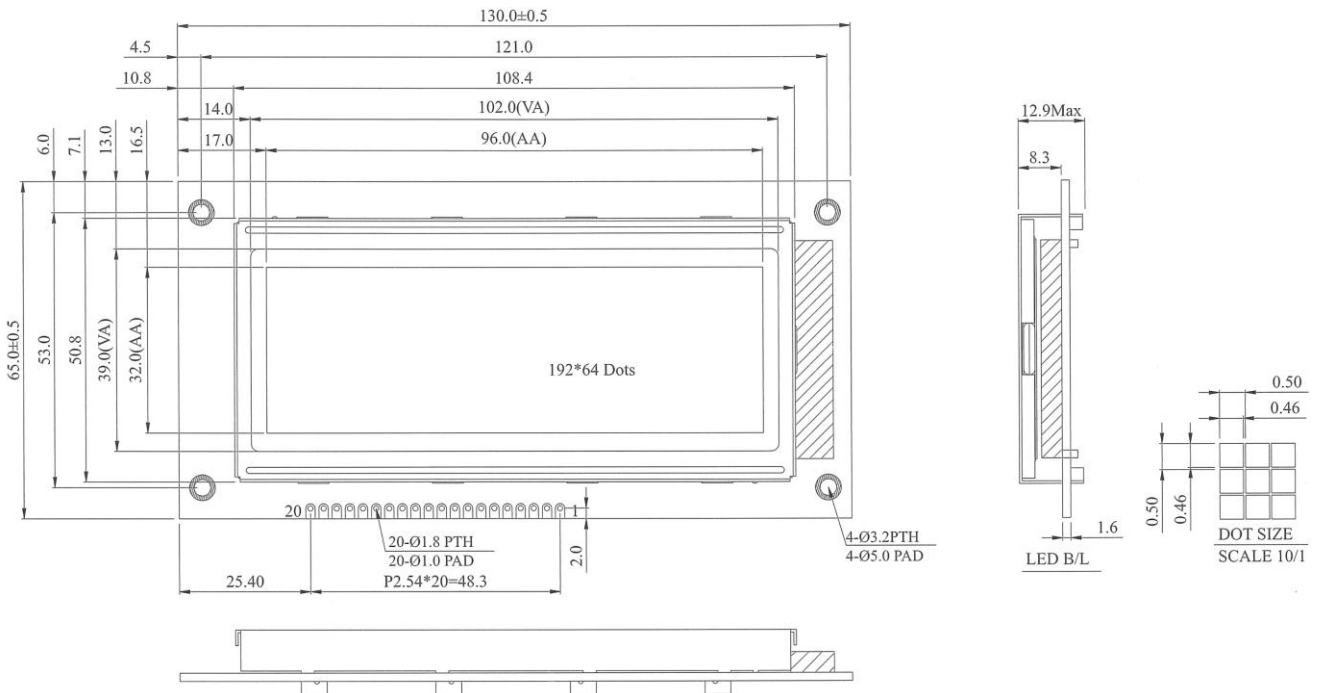


MSG19264A

Graphic 192x64 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



Feature		
1. Built-in controller (NT7108 or equivalent)		
2. +5V Power supply		
3. 1/64 duty cycle		
4. Optional N/V		
Pin	Symbol	Function
1	Vss	GND
2	Vdd	Supply voltage for logic
3	Vo	Operating Voltage for LCD
4	R/S	H: Data / L: Instruction
5	R/W	H: read data / L: write data
6	E	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 IC1
16	RES	Reset signal
17	CS2	Chip select IC2
18	CS3	Chip select IC3
19	VEE	Negative Voltage output
20	A	Power supply for B/L (+)

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	130.0 x 65.0	mm			
Viewing Area	102.0 x 39.0	mm			
Dot Size	0.458 x 0.458	mm			
Dot Pitch	0.508 x 0.508	mm			
Absolute Maximum Rating					
Item	Symbol	Standard Value			Unit
		min	typ	max	
Power Supply	Vdd - Vss	4.75	5.0	5.5	V
Input Voltage	Vi	0	---	Vdd	V

Note: Vss=0 V, Vdd=5.0 V

Electronical Characteristics						
Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd		4.5	5.0	5.5	V
Supply Current	Idd	Vdd=+5V	3.1	3.6	4.5	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vo-Vss	-20°C	---	---	9.6	V
		0°C	---	---	---	
		25°C	---	---	---	
		50°C	---	8.4	---	
		70°C	7.6	---	---	

See Specification for Backlight information.

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1 / 1

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