

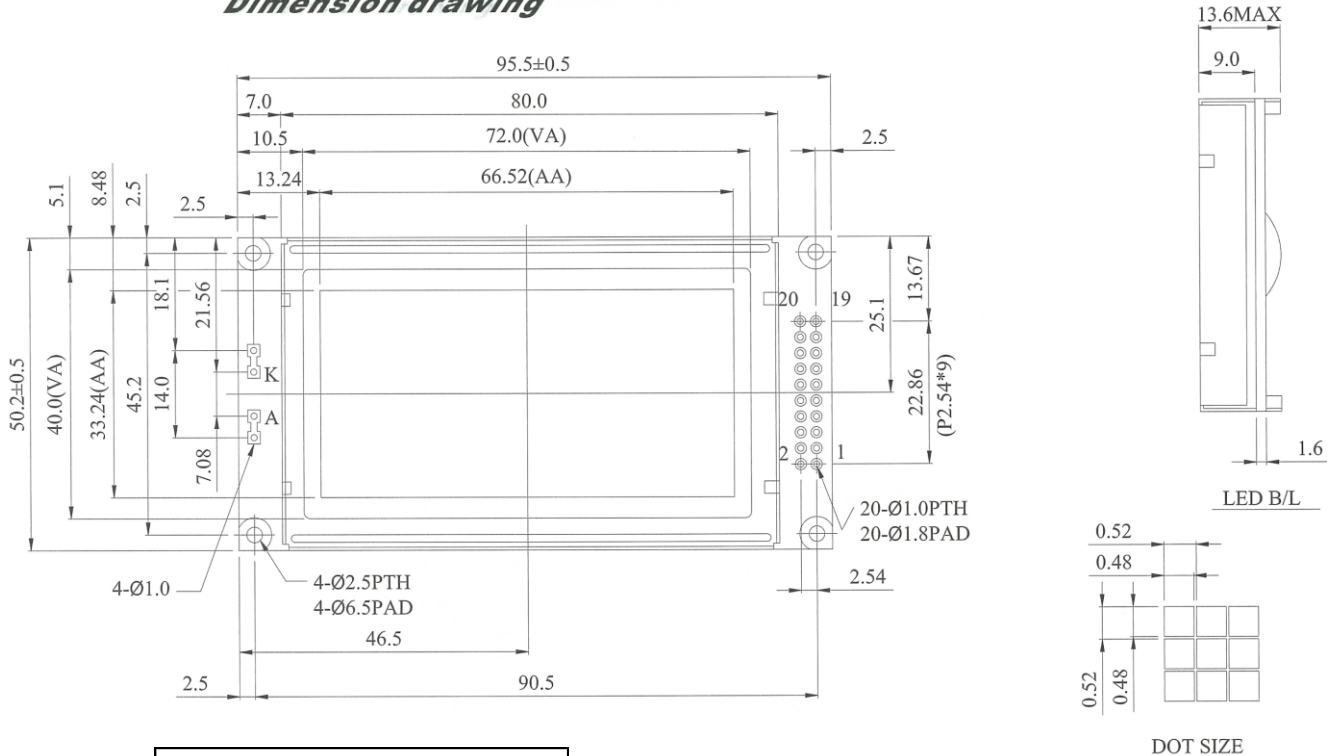
MSG12864M

Graphic 128x64 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS

Dimension drawing



Feature		
1. Built-in controller NT7108 or equivalent		
2. +5V Power supply		
3. 1/64 duty cycle		
4. N.V. Built-in		
Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply for logic
3	Vo	Contrast adjustment
4	D/I	Data / Instruction
5	R/ \bar{W}	Data read / write
6	E	H->L 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	H->Chip1 enable
16	CS2	H->Chip2 enable
17	RST	Reset
18	Vout	Negative voltage output
19	A	Power supply for LED B/L
20	K	Power supply for LED B/L

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	95.5 x 50.2	mm			
Viewing Area	72.0 x 40.0	mm			
Mounting Hole	90.5 x 45.2	mm			
Dot Pitch	0.52 x 0.52	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	---	2.5	7.5	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	9.9	10.4	10.9	V
		0°C	9.7	10.2	10.7	
		25°C	8.9	9.4	9.9	
		50°C	8.6	9.1	9.6	
		70°C	8.4	8.9	9.4	
See Specification for Backlight information.						

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