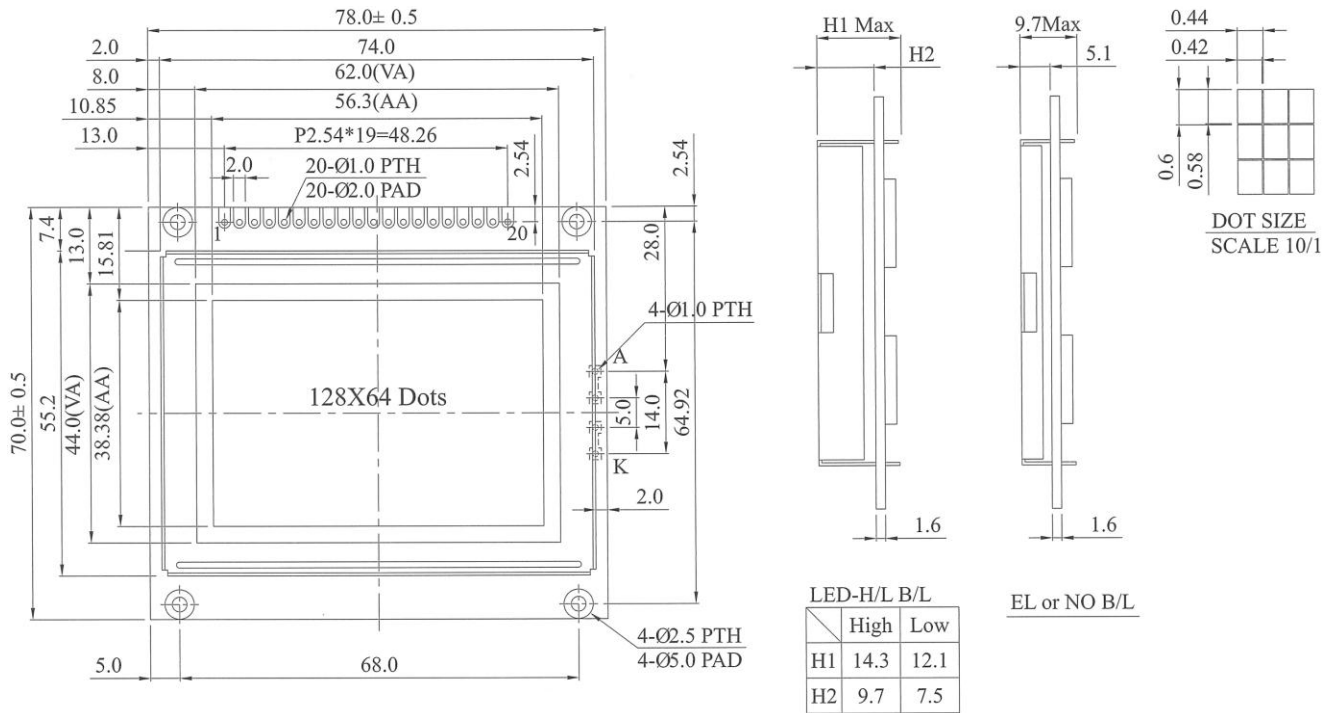


MSB12864D

Graphic 128x64 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



LED-H/L B/L		High	Low
H1	14.3	12.1	
H2	9.7	7.5	

EL or NO B/L

Feature		
1. Built-in controller RA6963		
2. +5V Power supply		
3. 1/64 duty cycle		
4. N.V. Built-in		
Pin	Symbol	Function
1	FG / Vee	Frame Ground / Negative Voltage
2	Vss	Power supply (0V)
3	Vdd	Power supply (+5V)
4	Vo	Power supply for LCD driver
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	CD	Command / data read / write
9	RST	Controller reset
10	DB0	Data bus line
11	DB1	Data bus line
12	DB2	Data bus line
13	DB3	Data bus line
14	DB4	Data bus line
15	DB5	Data bus line
16	DB6	Data bus line
17	DB7	Data bus line
18	FS	Font select
19	K	Power supply for LED (-)
20	A	Power supply for LED (+)

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	78.0 x 70.0	mm			
Viewing Area	62.0 x 44.0	mm			
Mounting Hole	68.00 x 64.92	mm			
Dot Pitch	0.44 x 0.60	mm			
Absolute Maximum Rating					
Item	Symbol	Standard Value			Unit
		min	typ	max	
Power Supply	Vdd - Vss	4.5	5.0	5.5	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	---	11.2	11.8	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	9.6	10.1	10.6	V
		0°C	9.4	9.9	10.4	
		25°C	9.4	9.6	10.4	
		50°C	8.7	9.2	9.7	
		70°C	8.5	9.0	9.5	

See Specification for Backlight information.

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