

WINSTAR Display

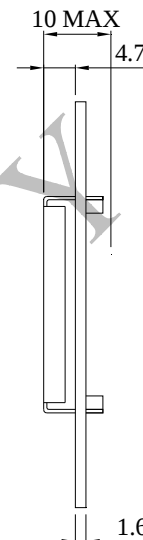
OLED SPECIFICATION

Model No:

WEH002004B

General Specification

Item	Dimension	Unit
Number of Characters	20 characters x 4 Lines	—
Module dimension	98.0 x 60.0 x 10.0(MAX)	mm
View area	77.0 x 25.2	mm
Active area	70.16 x 20.95	mm
Dot size	0.54 x 0.55	mm
Dot pitch	0.59 x 0.60	mm
Character size	2.9 x 4.75	mm
Character pitch	3.54 x 5.4	mm
Panel type	OLED , Monochrome	
Duty	1/16	
IC	WS0010-TX	
Interface	6800, option 8080, SPI	
Size	2.88 inch	



Technical drawing of a stepped block. The overall dimensions are 5.4 (height) and 3.54 (width). The block is composed of several steps. The top surface is 2.9 wide. The first step down is 0.59 high. The second step down is 0.54 high. The bottom surface is 0.6 high. The total height is 5.4. The total width is 3.54.



Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply Voltage for logic
3	NC	—	
4	RS	H/L	H: DATA, L: Instruction code
5	R/W	H/L	H: Read(Module→MPU) L: Write(MPU→Module)
6	E	H,H→L	Chip enable signal
7	DB0	H/L	Data bit 0
8	DB1	H/L	Data bit 1
9	DB2	H/L	Data bit 2
10	DB3	H/L	Data bit 3
11	DB4	H/L	Data bit 4
12	DB5	H/L	Data bit 5
13	DB6	H/L	Data bit 6
14	DB7	H/L	Data bit 7
15	NC	—	
16	NC	—	

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TST	-40	+85	°C
Supply Voltage For Logic	VDD-VSS	-0.3	5.3	V

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VDD-VSS	—	4.8	5.0	5.3	V
Input High Volt.	VIH	—	0.8xVDD	—	VDD	V
Input Low Volt.	VIL	—	GND	—	0.2xVDD	V
Output High Volt.	VOH	IOH=-0.5mA	0.8xVDD	—	VDD	V
Output Low Volt.	VOL	IOL=0.5mA	GND	—	0.2xVDD	V
50% Check Board Operating Current	IDD	VDD=5V	—	230	345	mA