

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	

98±0.5

2

10.5

13.63

10

94

77(VA)

70.16(AA)

P2.54*15=38.1

2

2.5

16

16-Ø1.0 PTH

14

17.4

19.53

60±0.5

32

25.2(VA)

20.95(AA)

55

2.5

93

4-Ø2.5 PTH

4-Ø5.0 PAD

124±5

1

16

P1.0*15=15

46.4

17

Technical drawing of a component, labeled 10 MAX 4.7. The drawing includes a side view and a top view. The side view shows a long, thin rectangular component with a width of 1.6 and a total length of 5.4. The top view shows a rectangular component with a width of 3.54 and a length of 4.75. The top view also shows a grid pattern with dimensions 0.6 and 0.55. The side view shows a small rectangular feature with a width of 0.59 and a height of 0.54. The top view shows a small rectangular feature with a width of 0.59 and a height of 0.54.



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