

WINSTAR Display

OLED SPECIFICATION

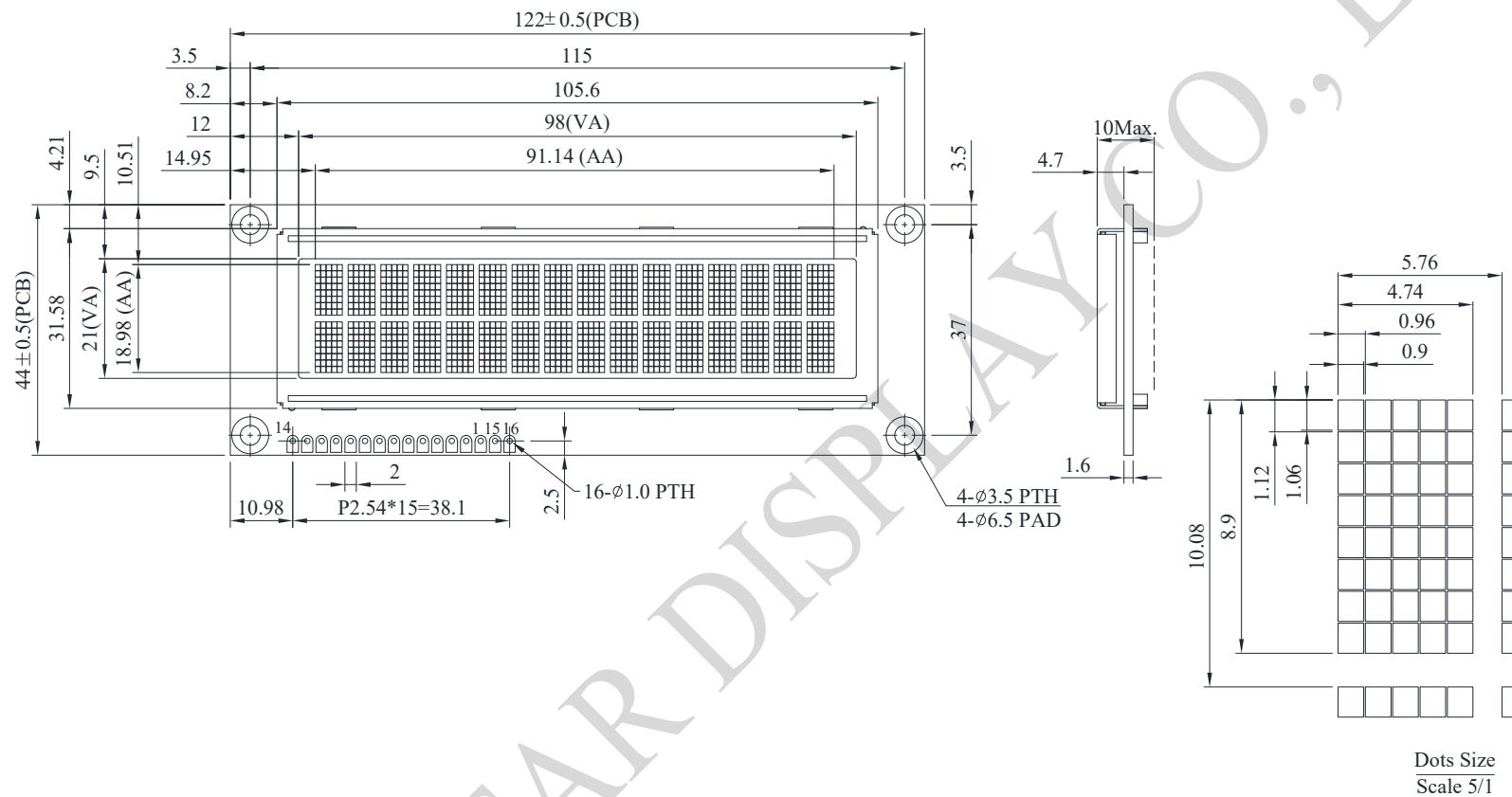
Model No:

WEH001602HRPP3N00300DS1

General Specification

Item	Dimension	Unit
Number of Characters	16 characters x 2 Lines	—
Module dimension	122.0 x 44.0 x 10.0(MAX)	mm
View area	98.0 x 21.0	mm
Active area	91.14 x 18.98	mm
Dot size	0.90 x 1.06	mm
Dot pitch	0.96 x 1.12	mm
Character size	4.74 x 8.9	mm
Character pitch	5.76 x 10.08	mm
Panel type	OLED , Red	
Duty	1/16	
IC	WS0010-TX	
Interface	SPI	
Size	3.67 inch	

Contour Drawing & Block Diagram



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	3.3V	Supply Voltage for logic
3	NC	—	No connection
4	NC	—	No connection
5	NC	—	No connection
6	NC	—	No connection
7	NC	—	No connection
8	NC	—	No connection
9	NC	—	No connection
10	NC	—	No connection
11	NC	—	No connection
12	SCL	H/L	Serial Clock
13	SDO	H/L	Serial Data output
14	SDI	H/L	Serial Data input
15	NC	—	No connection
16	CSB	—	Chip select input pins Data / instruction I/O is enabled only when CSB is “L”.

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit	Notes
Operating Temperature	TOP	-40	+80	°C	—
Storage Temperature	TST	-40	+85	°C	—
Supply Voltage For Logic	VDD-VSS	-0.3	3.6	V	—

Note :

1. All the above voltages are on the basis of “VSS = 0V”.
2. When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 6 “Electrical Characteristics”. If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate.
3. The absolute limit temperature was verified according to the test conditions of reliability test (See section 9. Reliability) , and module was met all criteria.
4. The defined temperature ranges do not include the polarizer. The maximum withstood temperature of the polarizer should be 80 °C.

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VDD-VSS	—	3.0	3.3	3.5	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
Display 50% Pixel on	IDD	VDD=3.3V	—	50	75	mA