

WINSTAR Display

OLED SPECIFICATION

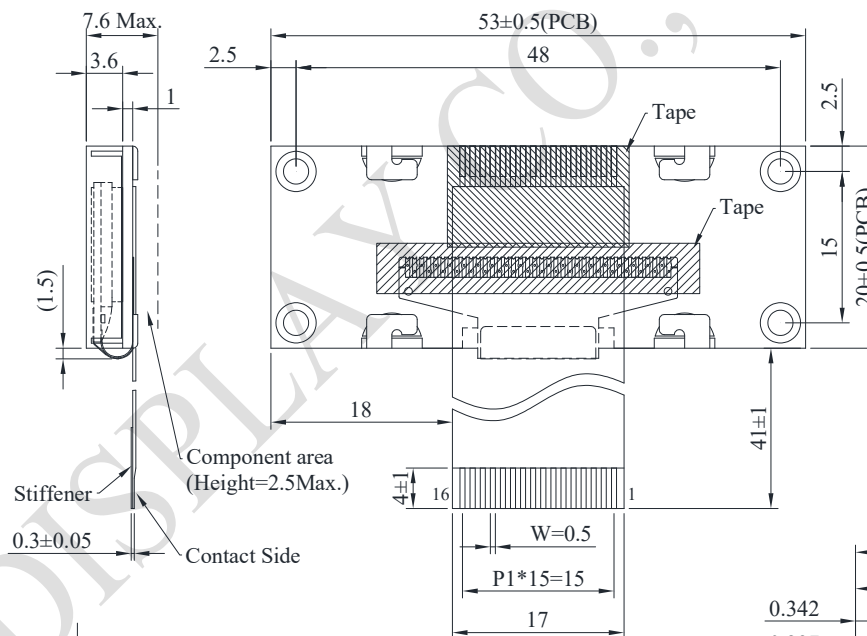
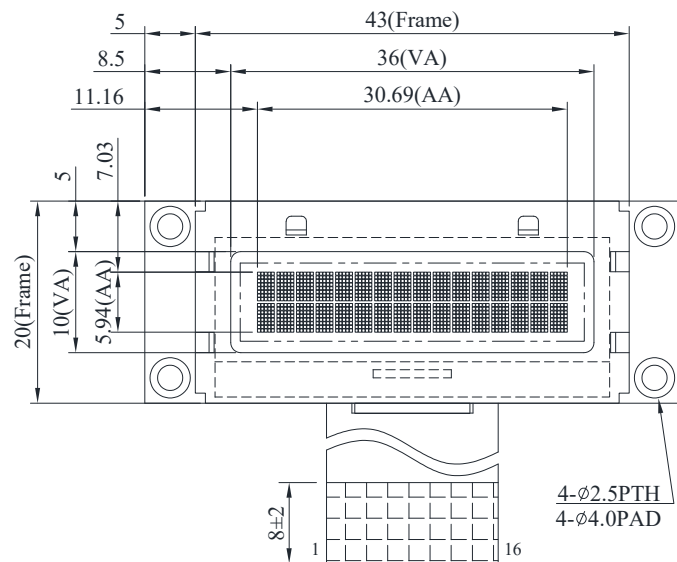
Model No:

WEO001602B

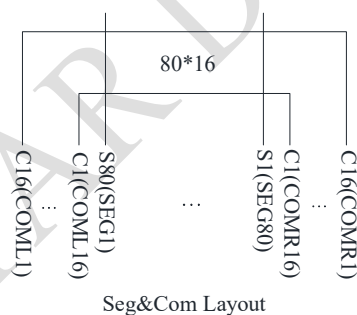
General Specification

Item	Dimension	Unit
Number of Characters	16 Characters x 2 Lines	—
Module dimension	53.0 x 20.0 x 7.6 (MAX)	mm
View area	36.0 x 10.0	mm
Active area	30.69 x 5.94	mm
Dot size	0.30 x 0.32	mm
Dot pitch	0.34 x 0.36	mm
Character size	1.67 x 2.84	mm
Character pitch	1.94 x 3.11	mm
Panel type	OLED , Monochrome	
Duty	1/16	
IC	WS0012	
Interface	6800	
Size	1.23 inch	

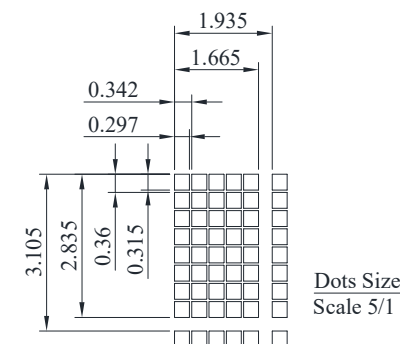
Contour Drawing & Block Diagram



PIN	SYMBOL
1	VSS
2	VDD
3	NC
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	NC
16	NC



Bezel flattened with PCB.



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

Interface Pin Function

Pin No.	Symbol	I/O	Description
1	VSS	0V	Ground
2	VDD	3.3V	Supply Voltage for logic
3	NC	—	No connection
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	—	No connection
16	NC	—	No connection

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	3.6	V

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	—	0.9xVDD	—	VDD	V
Input Low Volt.	VIL	—	GND	—	0.1xVDD	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=3.3V	—	25	38	mA