

WINSTAR Display

OLED SPECIFICATION

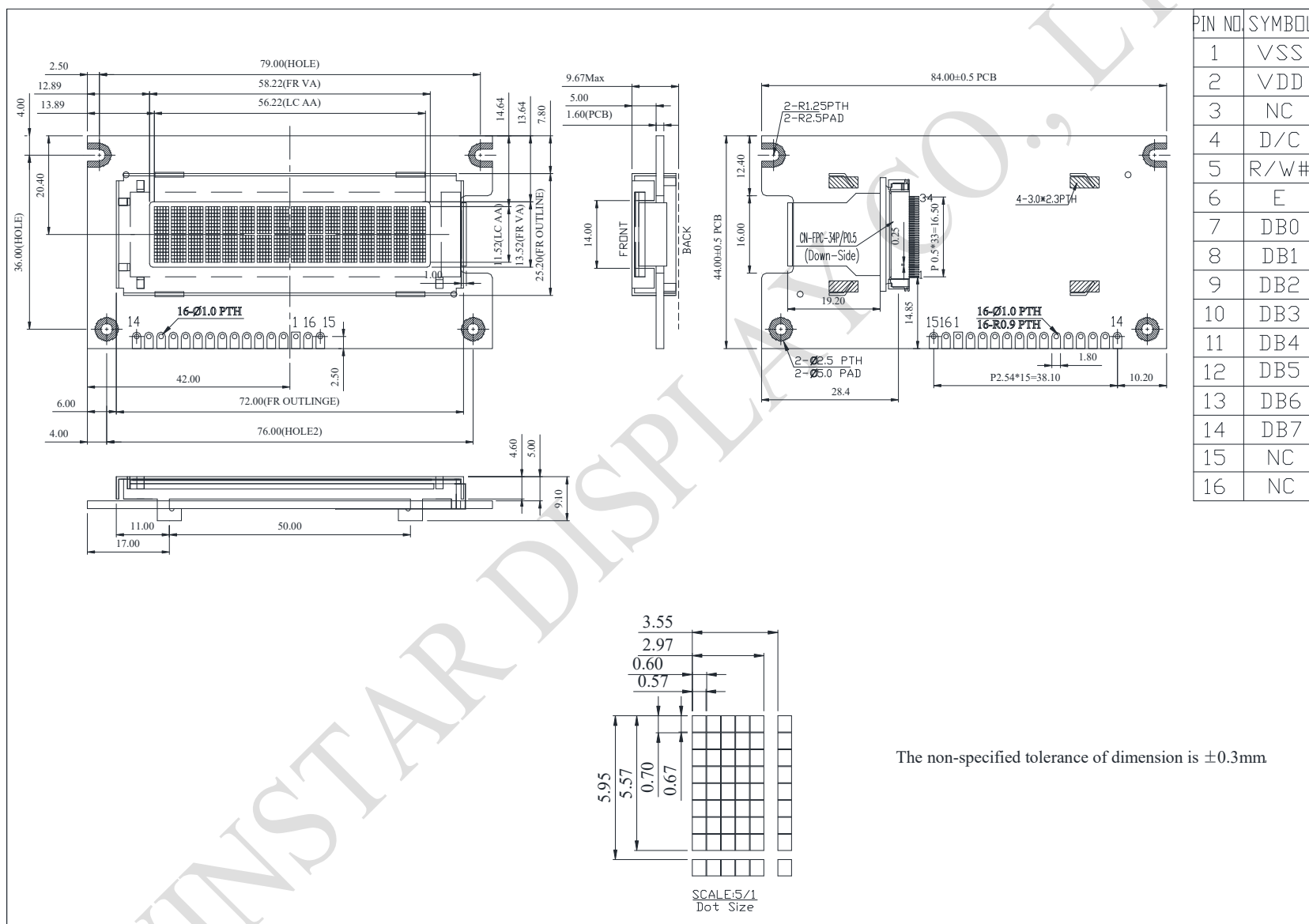
Model No:

WEO001602G

General Specification

Item	Dimension	Unit
Number of Characters	16 characters x 2 Lines	—
Module dimension	84.0 x 44.0 x 9.67	mm
View area	58.22 x 13.52	mm
Active area	56.22 x 11.52	mm
Dot size	0.57 x 0.67	mm
Dot pitch	0.60 x 0.70	mm
Character size	2.97 x 5.57	mm
Character pitch	3.55 x 5.95	mm
Panel type	OLED , Monochrome	
Duty	1/16	
IC	SSD1311	
Interface	6800, 8080, SPI, I2C	
Size	2.26 inch	

Contour Drawing & Block Diagram



Interface Pin Function

Pin No.	Symbol	Pin Type	Description
1	VSS	P	Ground pin.
2	VDD	P	Power supply for core logic operation. A capacitor should be connected between VDD and VSS under all circumstances.
3	NC		No connection
4	D/C#	I	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register.
5	R/W#	I	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW.
6	E	I	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected.
7~14	DB0~ DB7	I/O	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW.
15	NC		No connection
16	NC		No connection

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit
Input Voltage	V_I	-0.3	VDD	V
Supply Voltage For Logic	VDD-VSS	-0.3	6.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TST	-40	+85	°C

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VDD	—	4.8	5.0	5.3	V
Input High Volt.	V_{IH}	—	$0.8 \times VDD$	—	—	V
Input Low Volt.	V_{IL}	—	—	—	$0.2 \times VDD$	V
Output High Volt.	V_{OH}	$I_{OH} = -0.5mA$	$0.9 \times VDD$	—	—	V
Output Low Volt.	V_{OL}	$I_{OL} = 0.5mA$	—	—	$0.1 \times VDD$	V
50% Check Board Operating Current	IDD	VDD=5.0V	43	50	52	mA