

OLED SPECIFICATION

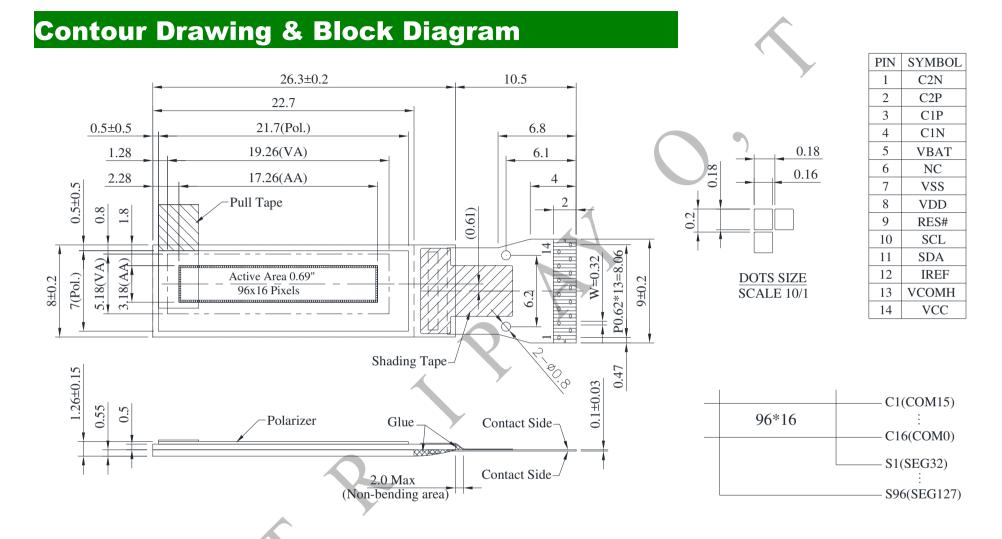
Model No:

WEO009616B



General Specification

Item	Dimension	Unit	
Dot Matrix	96 × 16 Dots	_	
Module dimension	26.3 × 8.0 × 1.26	mm	
Active Area	17.26 × 3.18	mm	
Pixel Size	0.16 × 0.18	mm	
Pixel Pitch	0.18 × 0.20	mm	
Display Mode	Passive Matrix		
Display Color	Monochrome		
Drive Duty	1/16 Duty		
IC	SSD1306		
Interface	I2C		
Size	0.69 inch		



The non-specified tolerance of dimension is ± 0.3 mm.

Interface Pin Function

No.	Symbol	Function
1	C2N	C1P/C1N - Pin for charge pump capacitor; Connect to each other with a
2	C2P	capacitor.
3	C1P	C2P/C2N - Pin for charge pump capacitor; Connect to each other with a
4	C1N	capacitor.
5	VBAT	This is the power supply pin for the internal buffer of the DC/DC voltage converter. It must be connected to external source when the converter is used. It should be connected to VDD when the converter is not used.
6	NC	No connection
7	VSS	This is a ground pin.
8	VDD	Power supply pin for core logic operation.
9	RES#	This pin is reset signal input. When the pin is low, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal operation.
10	SCL	When I2C mode is selected, D2, D1 should be tied together and serve as
11	SDA	SDAout, SDAin in application and D0 is the serial clock input, SCL.
12	IREF	This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 30uA. When internal IREF is used, this pin should be kept NC.
13	VCOMH	The pin for COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
14	VCC	This is the most positive voltage supply pin of the chip. A stabilization capacitor should be connected between this pin and VSS when the converter is used. It must be connected to external source when the converter is not used.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	0	4.0	V
Supply Voltage for Display	VCC	0	16.0	V
Charge Pump Regulator Supply Voltage	VBAT	0	5	V
Operating Temperature	TOP	-30	+70	°C
Storage Temperature	TSTG	-30	+70	°C

Electrical Characteristics

DC Electrical Characteristics

ltem	Symbol	Condition	Min	Тур	Max	Unit			
Supply Voltage for Logic	VDD	_	1.65	3.0	3.3	V			
Supply Voltage for Display (Supplied Externally)	VCC) –	6.0	7.5	8.0	V			
Charge Pump Regulator Supply Voltage	VBAT	_	3.0	_	4.2	V			
Charge Pump Output Voltage for Display (Generated by Internal DC/DC)	Charge Pump VCC	_	7.0	7.5	_	V			
Input High Volt.	VIH	_	0.8×VDD	_	VDD	V			
Input Low Volt.	VIL	_	0	_	0.2×VDD	V			
Output High Volt.	VOH	_	0.9×VDD	_	VDD	V			
Output Low Volt.	VOL	_	0	_	0.1×VDD	V			
50% check Board operating Current (VCC Supplied Externally)	ICC	_	_	5	10	mA			
50% check Board operating Current (VCC Generated by Internal DC/DC)	IBAT	_		5	10	mA			