

OLED SPECIFICATION

Model No:

ODM091-12832W101-P4

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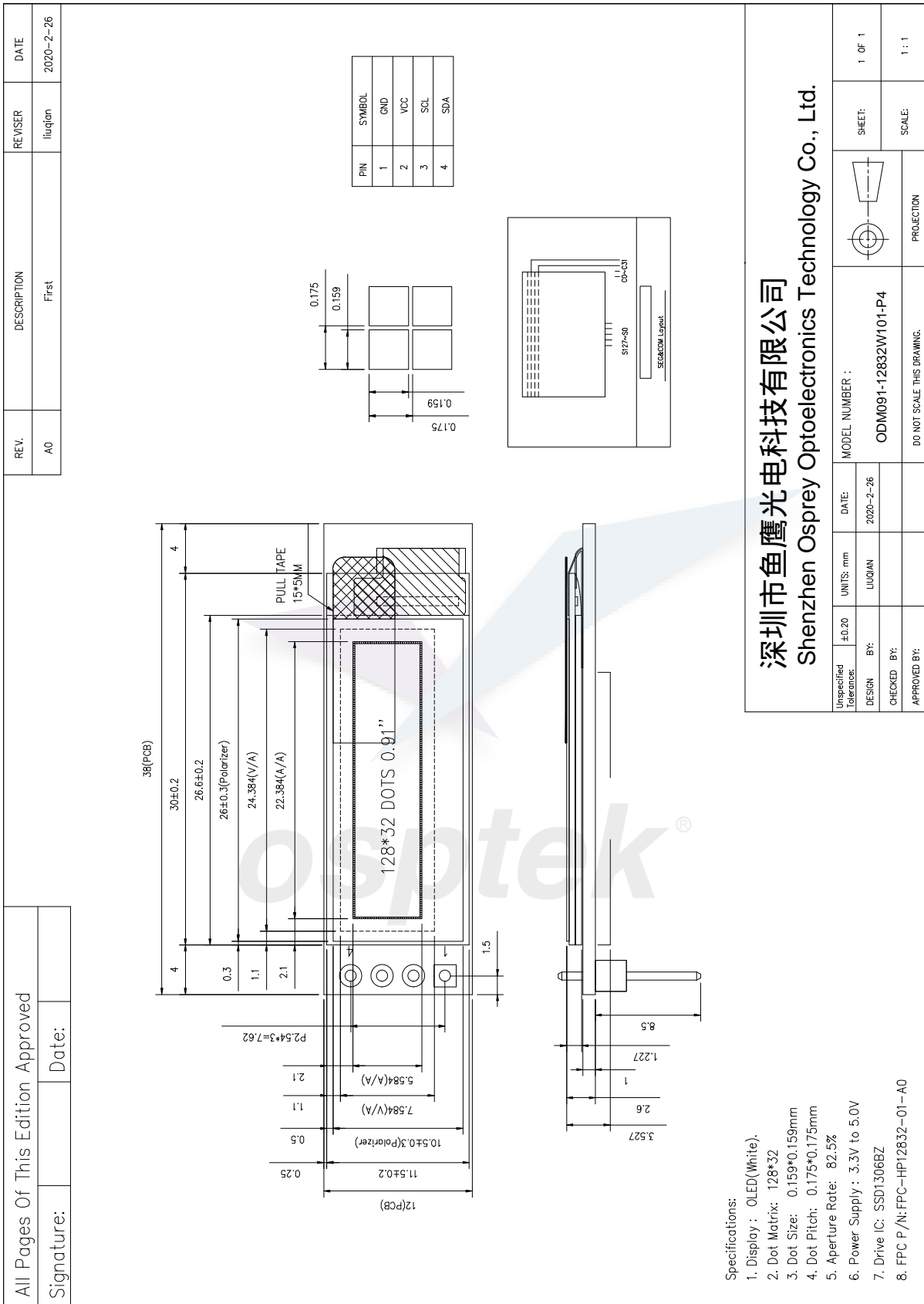
General Specification

Item	Dimension	Unit
Dot Matrix	128 x 32 Dots	-
Module dimension	38.0 x 12.0 x 11.1	mm
Active Area	22.384 x 5.584	mm
Pixel Size	0.159 x 0.159	mm
Pixel Pitch	0.175 x 0.175	mm
Display Mode	Passive Matrix	
Display Color	White	
Drive Duty	1/32 Duty	
Frame rate	105Hz	
IC	SSD1306	
Interface	I2C	
Size	0.91 inch	



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Contour Drawing & Block Diagram



深圳市鱼鹰光电科技有限公司
Shenzhen Osprey Optoelectronics Technology Co., Ltd.

- Specifications:
1. Display : OLED(White).
 2. Dot Matrix: 128*32
 3. Dot Size: 0.159*0.159mm
 4. Dot Pitch: 0.175*0.175mm
 5. Aperture Rate: 82.5%
 6. Power Supply : 3.3V to 5.0V
 7. Drive IC: SSD1306BZ
 8. FPC P /Ni:FPC-HP12832-01-A0

Unspecified Tolerance:	±0.20	UNITS: mm	DATE: 2020-2-26	MODEL NUMBER :	1 OF 1
DESIGN BY:	LUGUAN	BY:		ODM091-12832W101-P4	SHEET:
CHECKED BY:		CHECKED BY:		DO NOT SCALE THIS DRAWING.	PROJECTION
APPROVED BY:		APPROVED BY:			SCALE: 1 : 1

Interface Pin Function

No.	Symbol	Function
1	GND	Ground.
2	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.
3	SCL	I2C Bus Clock Signal. The transmission of information in the I2C bus is following a clock signal. Each transmission of data bit is taken place during a single clock period of this pin.
4	SDA	I2C Bus Data Signal. This pin acts as a communication channel between the transmitter and the receiver.



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VCC	3.3	5.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic(3V/5V)	VCC	-	1.65	3.3	3.5	V
Input High Volt.	VIH	-	0.8xVCC	-	VCC	V
Input Low Volt.	VIL	-	-	-	0.2xVCC	V
Output High Volt.	VOH	-	0.9xVCC	-	VCC	V
Output Low Volt.	VOL	-	0	-	0.1xVCC	V
50% Check Board operating Current	ICC	VCC=3.3V	-	160	220	mA