OLED DISPLAY SPECIFICATION





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REX128128D-CTP

General Specification

The features is described as follow:

■ Module Dimension: Ø50.5 x 5.0 mm

Active Area: Ø30.0 mm

Dot Matrix: 128*128

■ Pixel Size: 0.210 x 0.210 mm

■ Pixel Pitch: 0.235 × 0.235 mm

■ Display Mode : Passive Matrix

Duty: 1/128 Duty

■ Gray Scale: 4-bit

Display Color: Monochrome

■ IC: SSD1327

■ Interface: 4-line SPI , I2C

■ Size:1.18 inch

■ CTP IC:FT3268

Detect Point:1

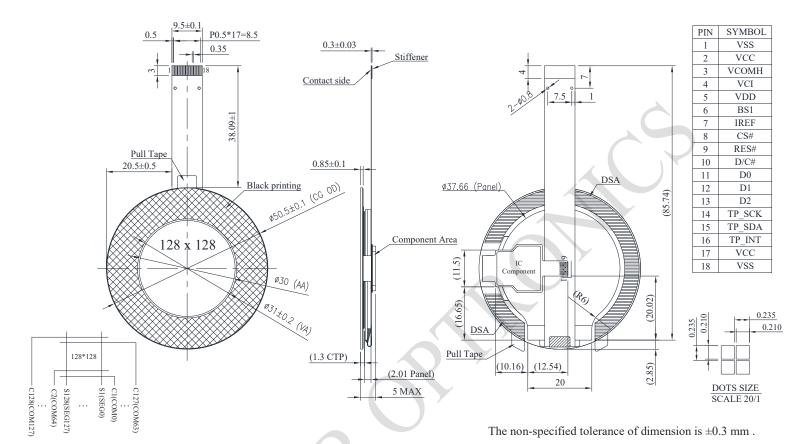
CTP Interface:I2C

Interface Pin Function

Pin No.	Symbol	Function						
1	VSS	Ground pin. It must be connected to external ground.						
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.						
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS. No external power supply is allowed to connect to this pin.						
4	VCI	Low voltage power supply and power supply for interface logic level. It should match with the MCU interface voltage level and must be connected to external source. VCI must always set to be equivalent to or higher than VDD.						
5	VDD	Power supply pin for core logic operation. VDD can be supplied externally (within the range of 2.4V to 2.6V) or regulated Internally from VCI. A capacitor should be connected between VDD and VSS under all circumstances.						
6	BS1	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS1 is pin select. Bus Interface selection BS1						
7	IREF	This pin is the segment output current reference pin						
8	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).						
9	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.						
10	DC#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, will be interpreted as data. When the pin is pulled LOW, will be transferred to a command register In I2C mode, this pin acts as SA0 for slave address selection.						

11	D0	When serial interface mode is selected, D0 will be the serial clock input:				
12	D1	SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC.				
13	D2	When I2C mode is selected, D2, D1 should be tied together and serve				
		as SDAout , SDAin in application and D0 is the serial clock input, SCL.				
14	TP_SCK	I2C clock signal				
15	TP_SDA	I2C data signal				
16	TP_INT	Interrupt signal				
17	VCC	Power supply for panel driving voltage. This is also the most positive				
''		power voltage supply pin.				
18	VSS	Ground				

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Operation	VCI	-0.3	3.6	V
Supply Voltage for Logic	VDD	-0.5	2.75	V
Supply Voltage for Display	VCC	-0.5	19.0	V
Operating Temperature	TOP	-20	+70	°C
Storage Temperature	TSTG	-30	+70	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Operation	VCI		2.8	3.0	3.3	V
Supply Voltage for Display	VCC		8.0	14.5	15.0	V
Supply Voltage for Logic	VDD	_	1.65	_	2.6	V
High Level Input	VIH	_	0.8×VCI	_	VCI	V
Low Level Input	VIL	_	0	_	0.2×VCI	V
High Level Output	VOH	lout = 100uA	0.9×VCI	_	VCI	V
Low Level Output	VOL	lout = 100uA	0	_	0.1×VCI	V
50% Check Board Operating C	VCC =14.5V	_	15	30	mA	