

OLED DISPLAY SPECIFICATION



RAYSTAR

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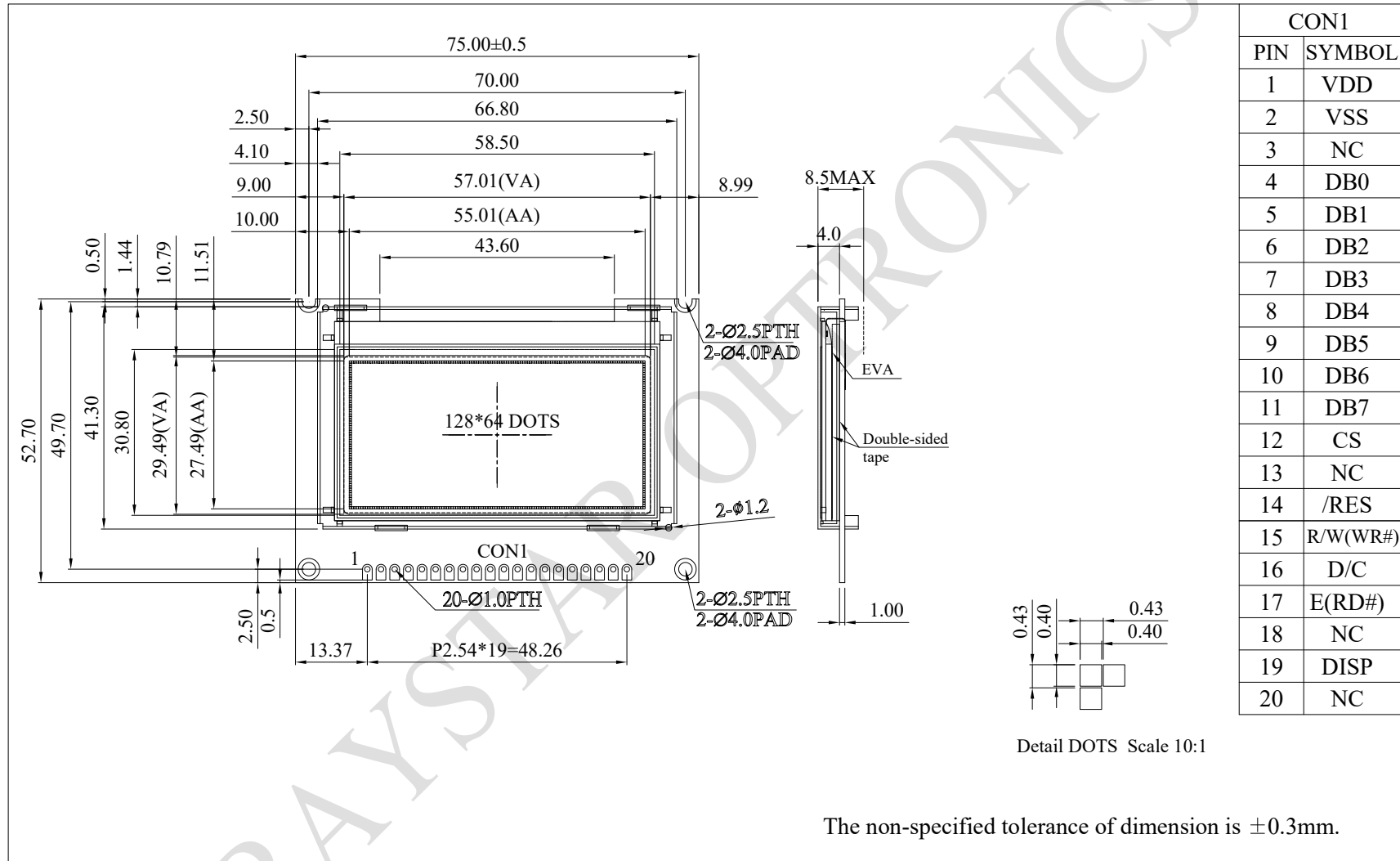
General Specification

- Module dimension: 75.0 × 52.7 × 8.5 mm
- Active area: 55.01 × 27.49mm
- Dot Matrix: 128 × 64
- Pixel Size: 0.40 × 0.40 mm
- Pixel Pitch: 0.43 × 0.43 mm
- Display Mode : Passive Matrix
- Duty: 1/64 Duty
- Display Color: Monochrome
- Controller IC: SSD1309
- Interface:8080
- SIZE: 2.42 inch

Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply pin for core logic operation.
2	VSS	Ground.
3	NC	No connection
4~11	D0~D7	Data bus.
12	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).
13	NC	No connection
14	/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.
15	R/W	This pin is read / write control input pin connecting to the MCU interface. When 8080 interface mode is selected, this pin is pulled LOW and the chip is selected
16	D/C	This pin is Data/Command control pin connecting to the MCU.
17	E	This pin is MCU interface input. When 8080 interface mode is selected, this pin is pulled LOW and the chip is selected
18	NC	No connection
19	DISP	Display off when it's pulled low; Display on when it's pulled high.
20	NC	No connection

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	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	VDD	—	2.8	3.0	3.3	V
High Level Input	VIH	—	0.8×VDD	—	—	V
Low Level Input	VIL	—	—	—	0.2×VDD	V
High Level Output	VOH	—	0.9×VDD	—	—	V
Low Level Output	VOL	—	—	—	0.1×VDD	V
Display 50% Pixel on	IDD	VDD =3.0V	120	135	145	mA