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WINSTAR Display

OLED SPECIFICATION

Model No:

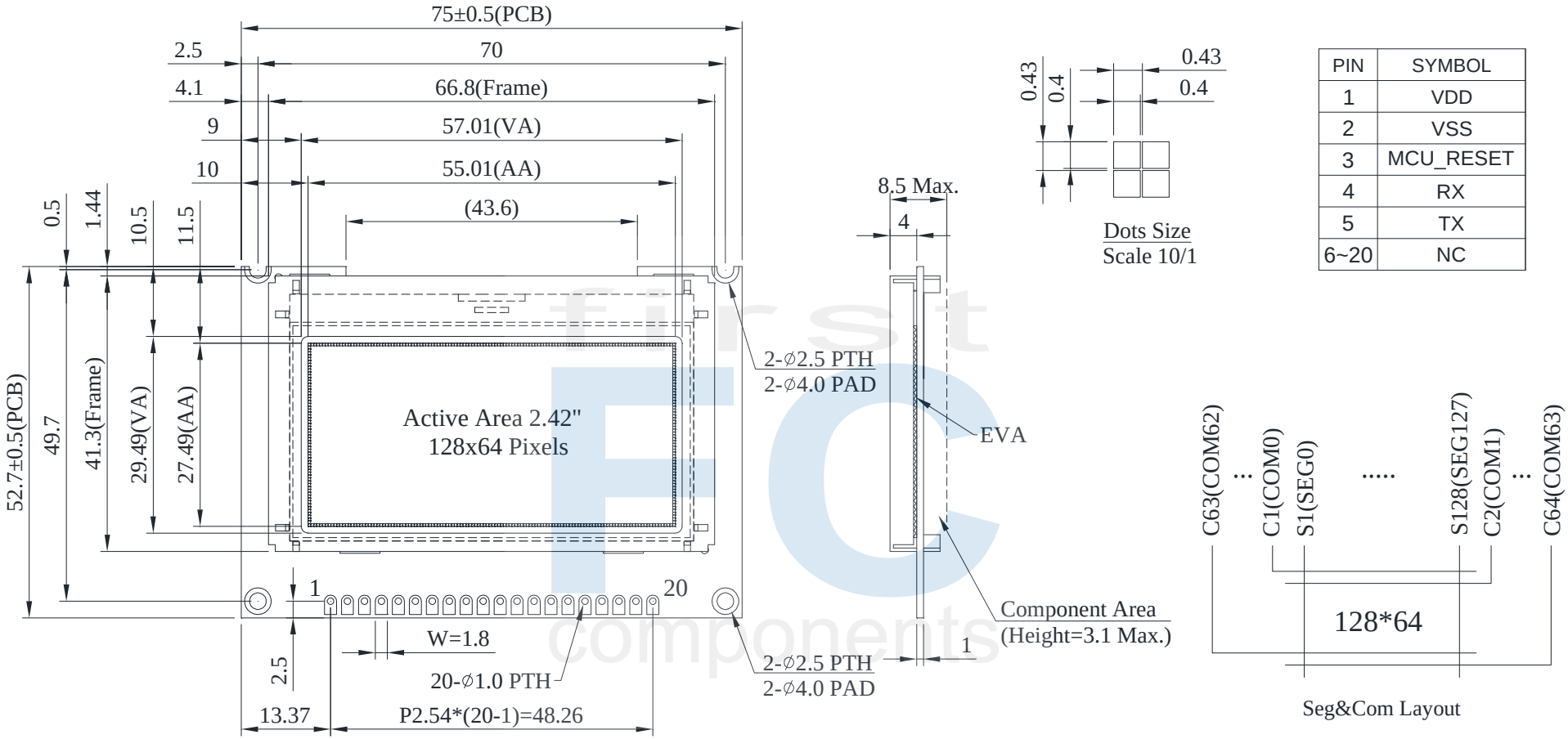
WEP12864W#ALP5N00E00-FC

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64	—
Module dimension	75.0 × 52.7 × 8.5(Max).	mm
Active Area	55.01 × 27.49	mm
Pixel Size	0.40 × 0.40	mm
Pixel Pitch	0.43 × 0.43	mm
Display Mode	Passive Matrix	
Display Color	Monochrome (White)	
Drive Duty	1/64 Duty	
IC	SH1106	
Interface	RS232 (Baud rate:115200)	
Size	2.42 inch	

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Contour Drawing & Block Diagram



PIN	SYMBOL
1	VDD
2	VSS
3	MCU_RESET
4	RX
5	TX
6~20	NC

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

Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply input
2	VSS	Ground.
3	MCU_RESET	MCU hardware reset input.3.3V~5V This pin is not used and should be open.
4	RX	RS-232 Receive
5	TX	RS-232 Transmit
6~20	NC	No connection.

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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	6	V	1, 2
Operating Temperature	TOP	-40	+80	°C	-
Storage Temperature	TSTG	-40	+85	°C	-

Note ：

1. All the above voltages are on the basis of “GND = 0V”.
2. When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 6 ‘’Electrical Characteristics’’. If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate.
3. The absolute limit temperature was verified according to the test conditions of reliability test (See section 9. Reliability) , and module was met all criteria.
4. The defined temperature ranges do not include the polarizer. The maximum withstood temperature of the polarizer should be 80 °C.

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Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic	VDD	–	4.8	5.0	6.0	V
Display 50% Pixel on	IDD	VDD =5V	–	100	200	mA

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