

WINSTAR Display

OLED SPECIFICATION

Model No:

WEA012832S

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 32 Dots	—
Module dimension	30.0 × 11.5 × 5.36MAX	mm
Active Area	22.38 × 5.58	mm
Pixel Size	0.155 × 0.155	mm
Pixel Pitch	0.175 × 0.175	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/32 Duty	
Gray Scale	4 bits	
IC	CH1120	
Interface	4-wire SPI	
Size	0.91 inch	

PIN	
1	
2	
3	
4	
5	
6	

Com & Seg layout

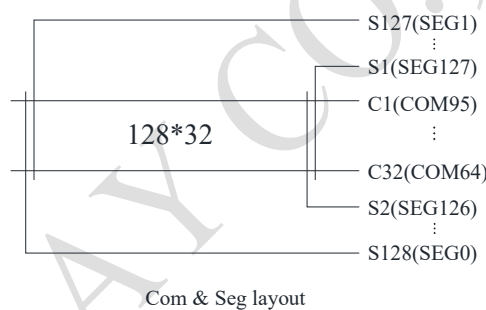
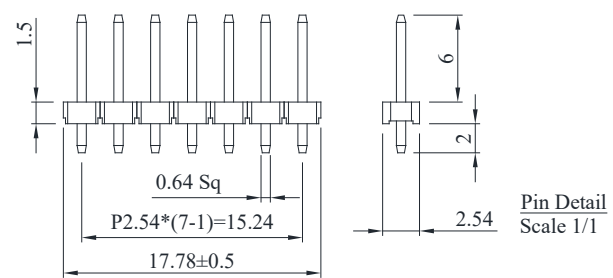


Diagram illustrating the relationship between dots per inch (DPI) and scale. The diagram shows a grid of squares with arrows indicating dimensions. The vertical dimension is labeled 0.175 and 0.155. The horizontal dimension is labeled 0.175 and 0.155. The text "Dots Size" and "Scale 20/1" is present.



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Interface Pin Function

No.	Symbol	Function
1	GND	GND.
2	VCC	Power supply pin for core logic operation
3	D0	The serial clock input pad.
4	D1	The serial data input pad.
5	RES#	This is a reset signal input pad. When RES is set to “L”, the settings are initialized. The reset operation is performed by the RES signal level.
6	D/C#	This is the Data/Command control pad that determines whether the data bits are data or a command.
7	CS#	This pad is the chip select input.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VCC	-0.3	3.5	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	VCC	—	2.8	3.0	3.3	V
Input High Volt.	VIH	—	0.8×VCC	—	VCC	V
Input Low Volt.	VIL	—	VSS	—	0.2×VCC	V
Output High Volt.	VOH	—	0.8×VCC	—	VCC	V
Output Low Volt.	VOL	—	VSS	—	0.2×VCC	V
Display 50% Pixel On	ICC	VCC=3V	—	10.5	16.0	mA