5inch IPS Display

5-inch IPS LCD Module Specification Sheet

Version	Release Record	Date
V1.0	Initial Release	2026-10-08

Please read this manual carefully to ensure safe use of this product.

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1. Overview

1.1. Features

- IPS display with a full viewing angle
- Wide viewing angle
- True-to-life colors
- Excellent dynamic image quality
- Energy-efficient and environmentally friendly
- High-definition image quality
- High-definition resolution of 800 × 480 pixels
- Supports mainstream operating systems such as Raspberry Pi OS when used with a Raspberry Pi, with multi-point capacitive touch.

2. Specifications

2.1. LCD Parameters

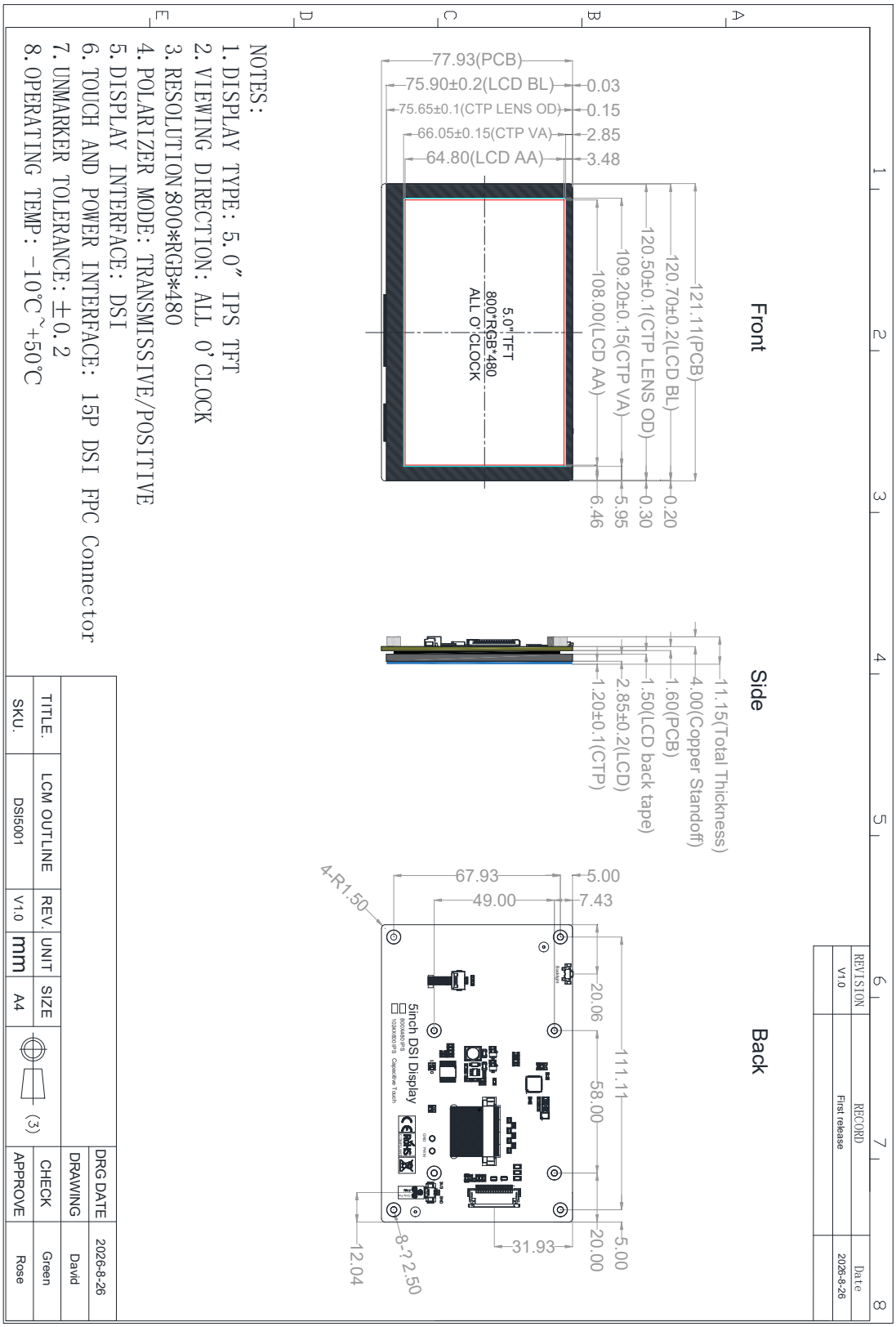
Item	Specifications	Unit
Screen Size	5.00	inch
Display Type	IPS	-
Resolution	800*480	pixels
Active Display Area	108.00*64.80	mm
Viewing Angle	170	deg
Surface Brightness (Typical)	370	cd/m2
Backlight Type	LED	-
Operating Temperature	-10~50	℃
Storage Temperature	-30~70	℃
Module Dimensions	121.11*77.93*11.15	mm
Touchscreen Type	Capacitive Touchscreen	-
Surface Hardness	6H	-

2.2. Other Parameters

Item	Specifications	Unit
SKU	DSI5082	-
Total Power (Max.)		W
Weight (Including Packaging)		g

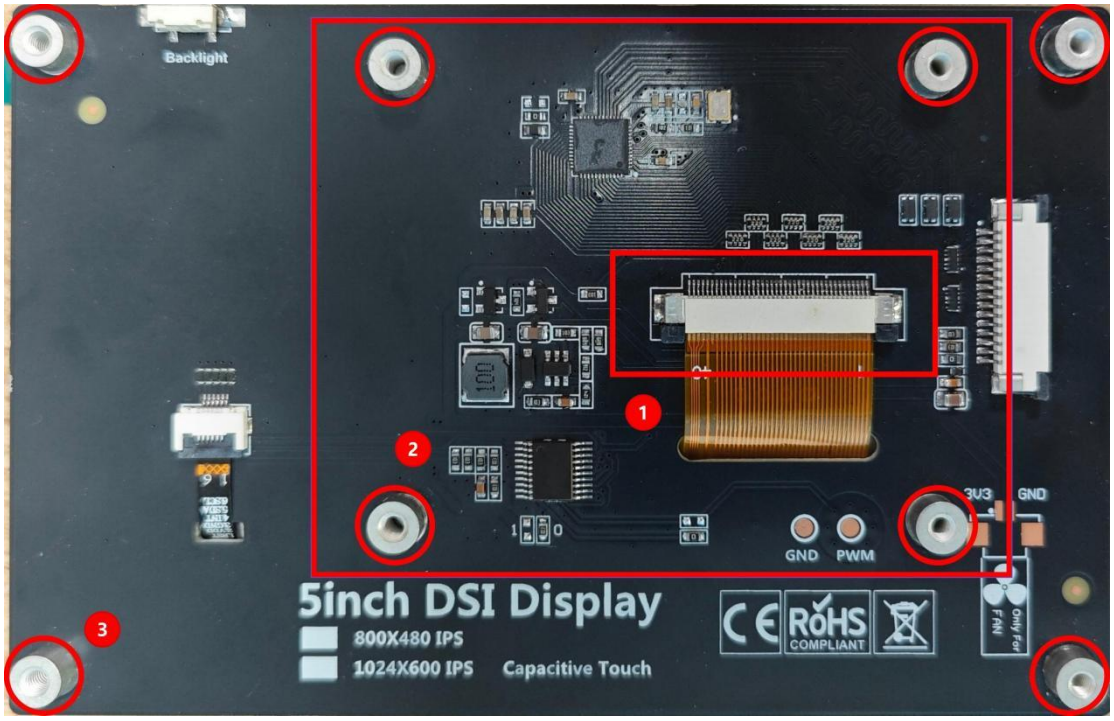
3. Dimension Drawing

3.1. Module Dimensions



4. Interfaces and Buttons

4.1. Interface Description



Interface	Description
① DSI MIPI	For high-definition video input; connect to the Raspberry Pi using the 15-pin FPC cable.
② ×4 Metal Standoffs	Secure the Raspberry Pi with M2.5 screws.
③ ×4 Metal Standoffs	For external mounting.

The MIPI interface uses a 15-pin horizontal FPC connector with a 0.5 mm pitch.

The pin assignment is as follows:

MIPI DSI FPC Connector Pin Assignment:

No.	Module Pin	Description
1	GND	Ground
2	MIPI DSI1_DN1	Data Lane 1 Negative Signal (Differential Pair)
3	MIPI DSI1_DP1	Data Lane 1 Positive Signal (Differential Pair)
4	GND	Ground
5	MIPI DSI1_CN	Clock Lane 0 Negative Signal (Differential Pair)
6	MIPI DSI1_CP	Clock Lane 0 Positive Signal (Differential Pair)
7	GND	Ground
8	DSI1_DN0	Data Lane 0 Negative Signal (Differential Pair)
9	MIPI DSI1_DP0	Data Lane 0 Positive Signal (Differential Pair)
10	GND	Ground
11	SCL0	Touch I2C - SCL
12	SDA0	Touch I2C - SDA
13	GND	Ground
14	3.3V	3.3 V Power Supply
15	3.3V	3.3 V Power Supply