

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFB606750A-AYH-MNN

General Specifications

- Size: 6.75 inch
- Dot Matrix: 480 x 3(RGB) x 1280 dots
- Module dimension: 66.8 x 181.1 x 4.55 mm
- Active area: 60.19 x 160.512 mm
- Pixel pitch: 0.1254 x 0.1254 mm
- LCD type: TFT, Normally Black ,Transmissive
- View Angle: 85/85/85/85 (IPS)
- Control IC: FL7703NI-G5-DP
- Interface: 4-Lanes MIPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

Interface

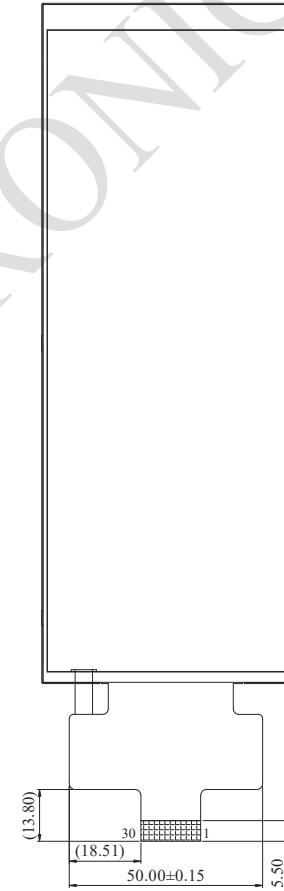
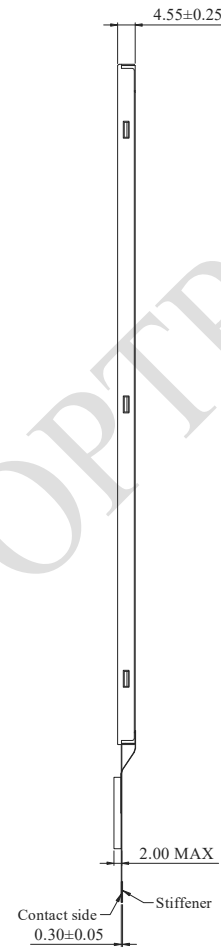
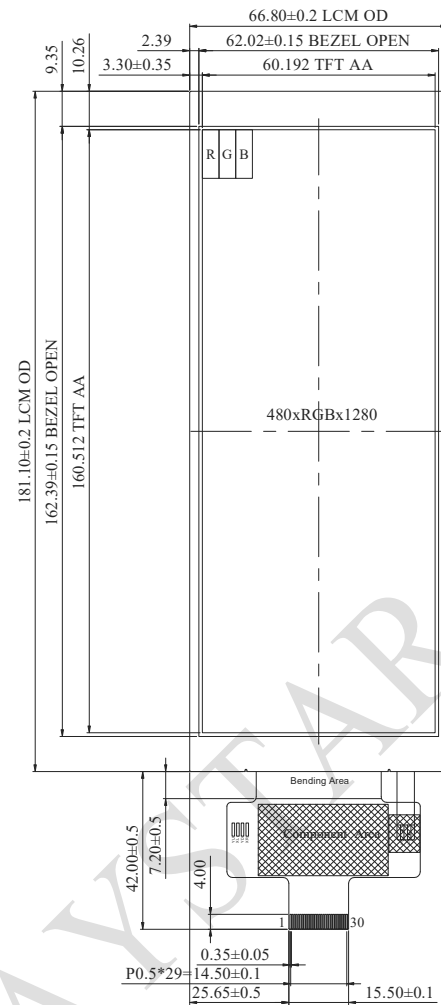
LCM PIN Definition

Pin No.	Symbol	Pin Description
1	GND	Ground
2	D3N	High speed interface data differential signal input pins.
3	D3P	
4	GND	Ground
5	D2N	High speed interface data differential signal input pins.
6	D2P	
7	GND	Ground
8	CLKN	High speed interface clock differential signal input pins. OPEN
9	CLKP	
10	GND	Ground
11	D1N	High speed interface data differential signal input pins.
12	D1P	
13	GND	Ground
14	D0N	High speed interface data differential signal input/output pins.
15	D0P	
16	GND	Ground
17	GND	Ground
18	TE	Serve as a TE (Tearing Effect) output signal Leave the pin open when not in use.
19	RESET	Reset pin. This signal will reset the device and must be applied to properly initialize the chip.
20	GND	Ground
21-23	VCC	Power supply
24	GND	Ground
25-28	NC	No connection
29	VLED-	Power for LED backlight cathode
30	VLED+	Power for LED backlight anode

Contour Drawing

TFT FPC

PIN No.	SYMBOL	PIN No.	SYMBOL
1	GND	16	GND
2	D3N	17	GND
3	D3P	18	TE
4	GND	19	RESET
5	D2N	20	GND
6	D2P	21	VCC
7	GND	22	VCC
8	CLKN	23	VCC
9	CLKP	24	GND
10	GND	25	NC
11	D1N	26	NC
12	D1P	27	NC
13	GND	28	NC
14	D0N	29	VLED-
15	D0P	30	VLED+



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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply voltage for logic	VCC	3.0	3.3	3.6	V
Supply LCM current	Icc	-	80	120	mA

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	180	—	mA
LED voltage	VLED+	15.6	18.0	20.4	V
LED Life Time	—	—	50,000	—	Hr