

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFB606750A-AYW-MNG

General Specifications

- Size: 6.75 inch
- Dot Matrix: 480 x 3(RGB) x 1280 dots
- Module dimension: 74.4 x 188.1 x 6.6 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
- PCAP Driver IC: GT911
- PCAP Interface: I2C
- PCAP FW Version: HSD_0686097_GT911_1060_V70_480x1280_20230916
- PCAP Resolution: 480*1280
- Backlight Type: LED, Normally White
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare

Interface

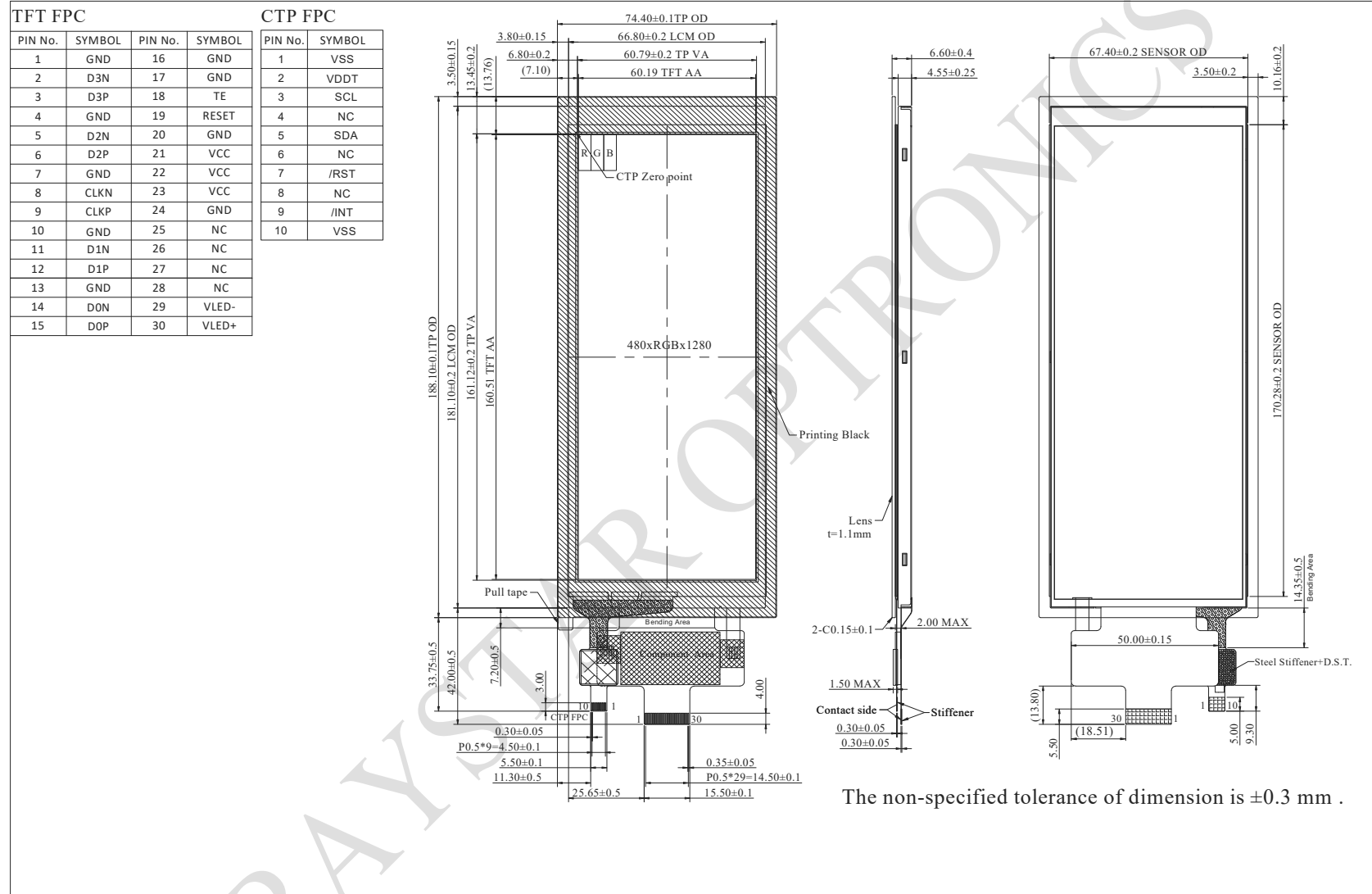
LCM PIN Definition

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

PCAP PIN Definition

Pin	Symbol	Function
1	VSS	Ground for analog circuit
2	VDDT	Power Supply : +3.3V
3	SCL	I2C clock input
4	NC	No connection
5	SDA	I2C data input and output
6	NC	No connection
7	/RST	External Reset, Low is active
8	NC	No connection
9	/INT	External interrupt to the host
10	VSS	Ground for analog circuit

Contour Drawing



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	I _{CC}	-	80	120	mA
Supply PCAP	V _{CTP}	2.8	3.3	3.6	V
	I _{CTP}	-	13.0	20.0	mA

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	120	—	mA
LED voltage	V _{LED+}	15.6	18.0	20.4	V
LED Life Time	—	—	50,000	—	Hr