

# TFT DISPLAY SPECIFICATION



RAYSTAR

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## RFS390D-1LW-DHN

### SPECIFICATION

#### General Specifications

- Size: 3.9 inch
- Dot Matrix: 480 x128 x RGB dots
- Module dimension: 105.5 x 42.25 x 12.45 (Max) mm
- Active area: 95.04 x 25.34 mm
- Pixel pitch: 0.198(H) x 0.198(V) mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 6 o'clock
- Gray Scale Inversion Direction: 12 o'clock
- Aspect Ratio: Bar Type
- Backlight Type: LED, Normally White
- Controller IC: TFP401
- Interface: HDMI(only for DVI)
- Touch Panle: Without Touch Panel
- Surface: Anti-Glare

\*Color tone slight changed by temperature and driving voltage.

# Interface

## 1. LCM PIN Definition HDMI (only for DVI)

Pin No.	Symbol	I/O	Function	Remark
1	Rx2+	I	Channel-2 positive receiver input; low-voltage signal differential- input pair.	
2	GND	P	Ground	
3	Rx2-	I	Channel-2 negative receiver input; low-voltage signal differential- input pair.	
4	Rx1+	I	Channel-1 positive receiver input; low-voltage signal differential- input pair.	
5	GND	P	Ground	
6	Rx1-	I	Channel-1 negative receiver input; low-voltage signal differential- input pair.	
7	Rx0+	I	Channel-0 positive receiver input; low-voltage signal differential- input pair.	
8	GND	P	Ground	
9	Rx0-	I	Channel-0 negative receiver input; low-voltage signal differential- input pair.	
10	RxC+	I	Clock positive receiver input; low-voltage signal differential- input pair.	
11	GND	P	Ground	
12	RxC-	I	Clock negative receiver input; low-voltage signal differential- input pair.	
13-16	NC	-	No connection	
17	GND	P	Ground	
18	NC	-	No connection	
19	NC	-	No connection	

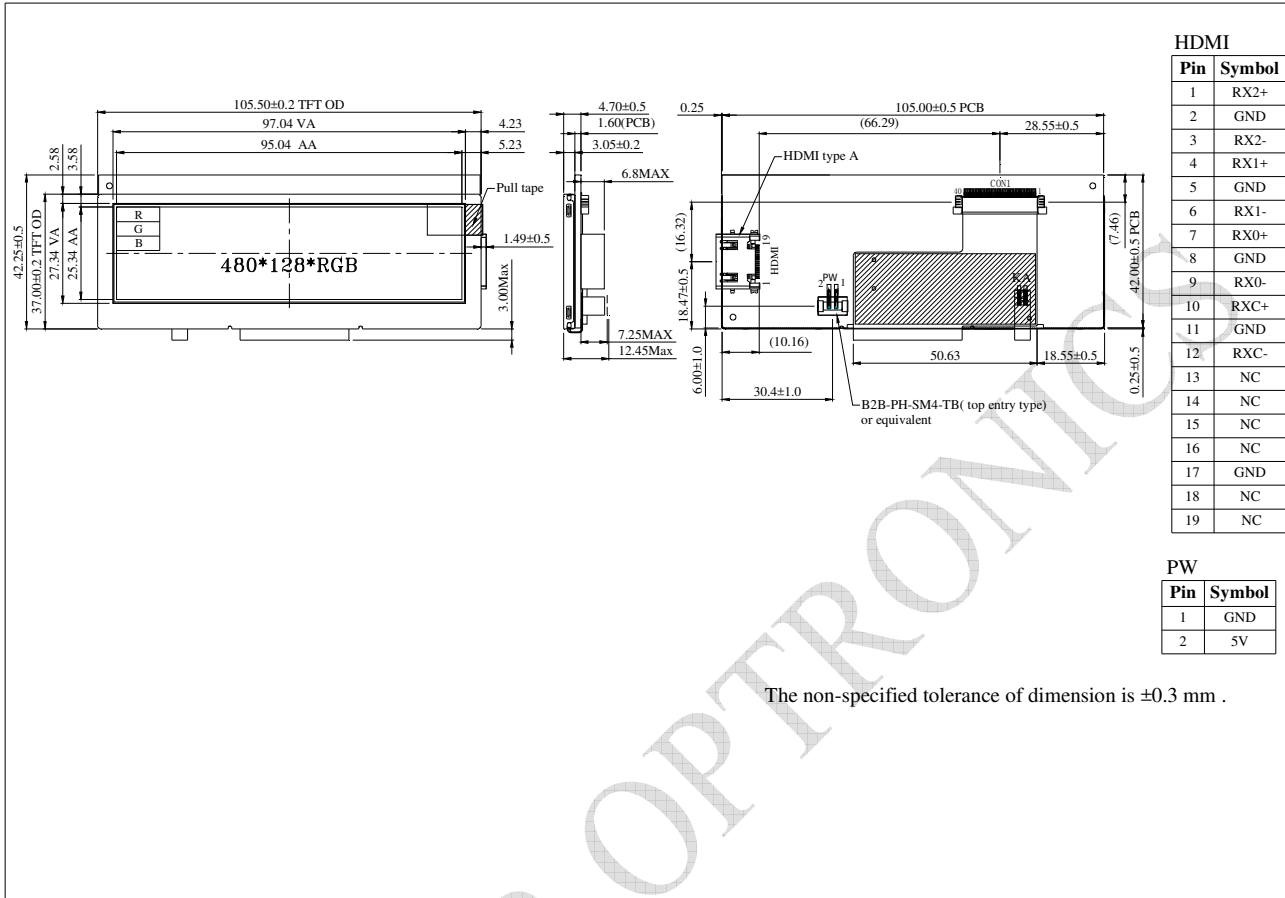
I: input, O: output, P: Power

Note 1: Only supports Raspberry Pi series

## 2. PW

Pin No.	Symbol	I/O	Function	Remark
1	GND	P	Ground	
2	5V	P	Power Supply	

# 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	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	—	5	—	V
Supply Current For LCM	IDD	—	—	250	400	mA
LED life time	—	—	—	50,000	—	Hr