

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFS390D-1LW-DHN

General Specifications

- Size: 3.9 inch
- Dot Matrix: 480x128 x RGB dots
- Module dimension: 125.0 x 66.5 x 11.80 (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 Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

LCM PIN Definition

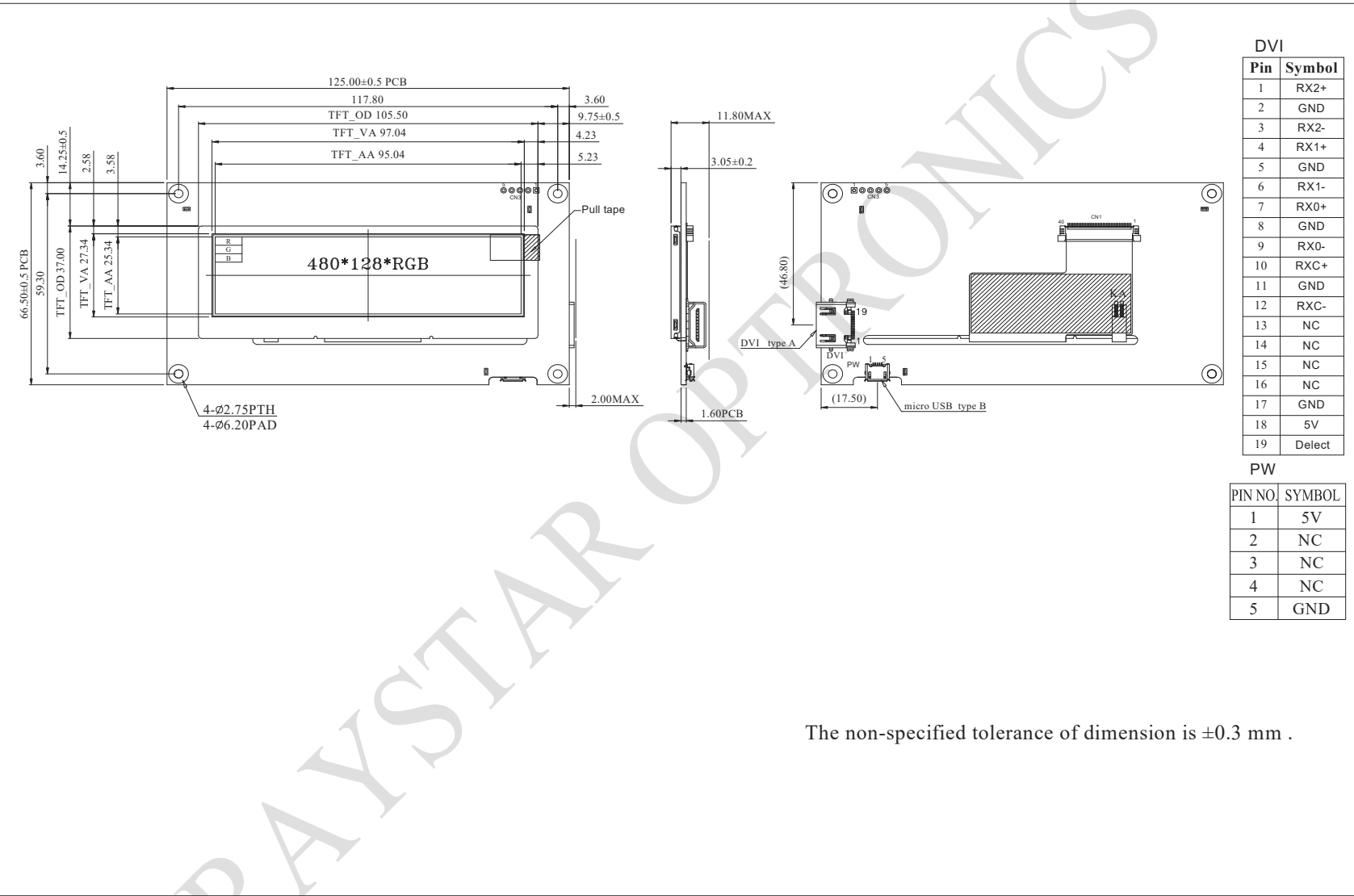
DVI

Pin No.	Symbol	I/O	Function
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	5V	P	Power Supply
19	Delect	-	Delect

PW(Micro USB type B)

Pin No.	Symbol	I/O	Function
1	5V	P	Power Supply
2	NC	-	No connection
3	NC	-	No connection
4	NC	-	No connection
5	GND	P	Ground

Contour Drawing



DVI

Pin	Symbol
1	RX2+
2	GND
3	RX2-
4	RX1+
5	GND
6	RX1-
7	RX0+
8	GND
9	RX0-
10	RXC+
11	GND
12	RXC-
13	NC
14	NC
15	NC
16	NC
17	GND
18	5V
19	Delect

PW

PIN NO.	SYMBOL
1	5V
2	NC
3	NC
4	NC
5	GND

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	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