

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFK1010K-AYW-LNS

General Specifications

- Screen Diagonal: 10.1 inch
- Number of Pixels: 1280 x 3(R GB) x 800 dots
- Module dimension: 229.34 x 148.98 x 5.45 mm
- Active area: 216.96 (H) x 135.6(V) mm
- Pixel pitch: 0.1695 × 0.1695 mm
- Display Mode: Normally Black , Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Pixel Arrangement: R.G.B. Vertical Stripe
- Drive IC: EK79202B1
- Interface: LVDS
- Backlight Type: LED, Normally White
- Aspect Ratio: 16:10
- Touch Panel: Resistive Touch Panel, RTP
- Surface: Anti-Glare

Interface

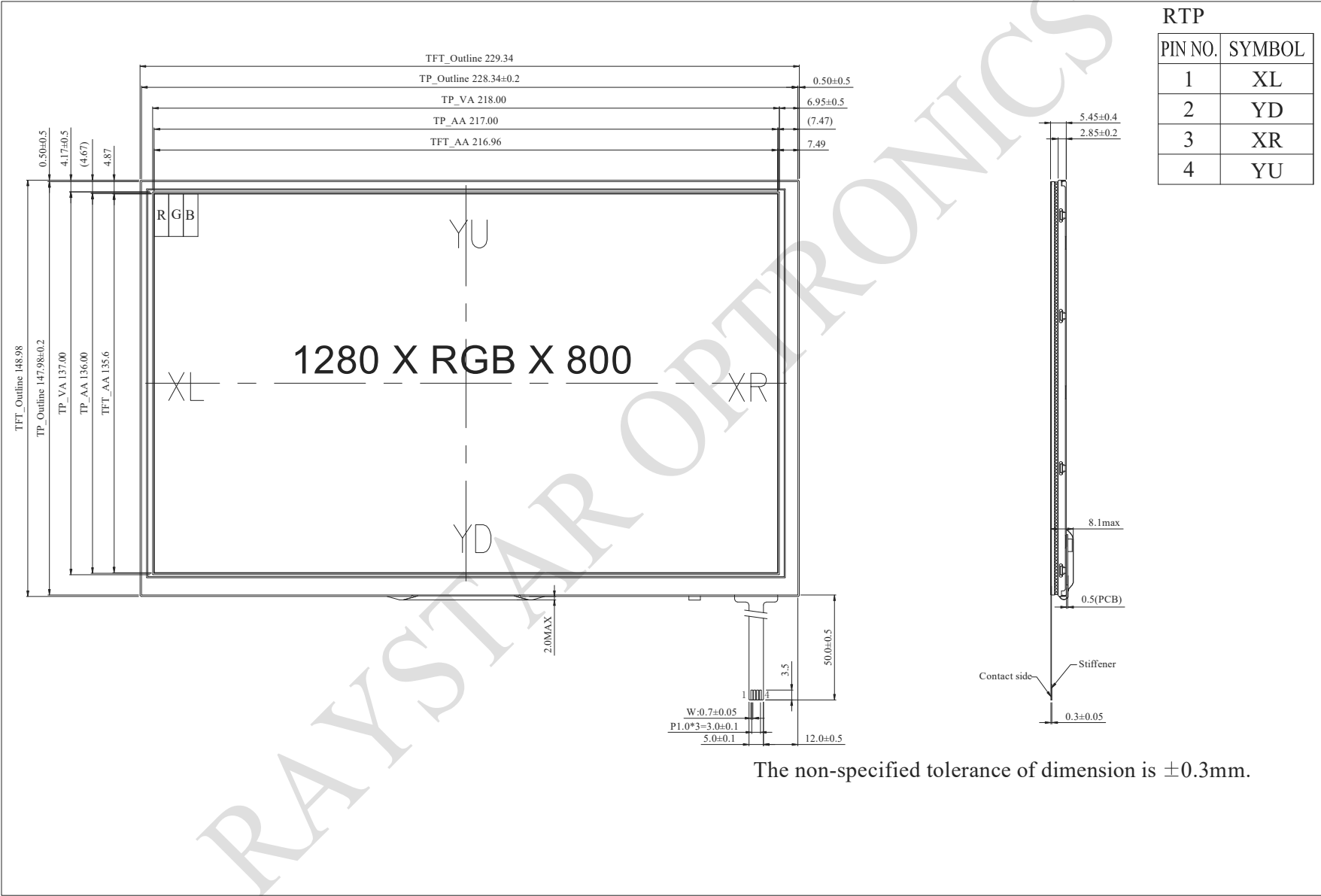
Interface Connector

Pin No.	Symbol	I/O	Function
1	NC	-	No connection
2	VCC	P	Power Supply
3	VCC	P	Power Supply
4	NC	-	No connection
5	NC	-	No connection
6	NC	-	No connection
7	GND	P	Ground
8	Rxin0-	I	-LVDS Differential Data Input
9	Rxin0+	I	+LVDS Differential Data Input
10	GND	P	Ground
11	Rxin1-	I	-LVDS Differential Data Input
12	Rxin1+	I	+LVDS Differential Data Input
13	GND	P	Ground
14	Rxin2-	I	-LVDS Differential Data Input
15	Rxin2+	I	+LVDS Differential Data Input
16	GND	P	Ground
17	RxCLK-	I	-LVDS Differential Clock Input
18	RxCLK+	I	+LVDS Differential Clock Input
19	GND	P	Ground
20	Rxin3-	I	-LVDS Differential Data Input
21	Rxin3+	I	+LVDS Differential Data Input
22	GND	P	Ground
23	NC	-	No connection
24	NC	-	No connection
25	GND	P	Ground
26	NC	-	No connection
27	NC	-	No connection
28	NC	-	No connection
29	NC	-	No connection
30	GND	P	Ground
31	LED-	P	LED Cathode
32	LED-	P	LED Cathode

33	NC	-	No connection
34	NC	-	No connection
35	VGL	P	Gate OFF Voltage
36	NC	-	No connection
37	NC	-	No connection
38	VGH	P	Gate ON Voltage
39	LED+	P	LED Anode
40	LED+	P	LED Anode

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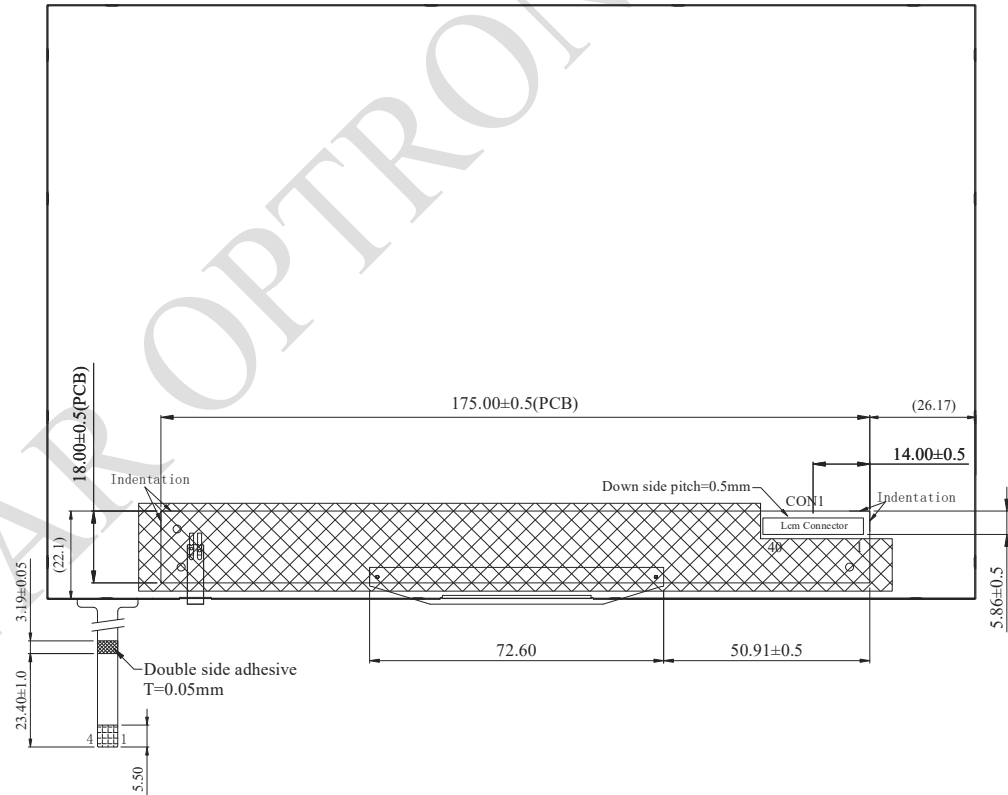
Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.

CN1

PIN NO	SYMBOL	PIN NO	SYMBOL
1	NC	21	Rxin3+
2	VCC	22	GND
3	VCC	23	NC
4	NC	24	NC
5	NC	25	GND
6	NC	26	NC
7	GND	27	NC
8	Rxin0-	28	NC
9	Rxin0+	29	NC
10	GND	30	GND
11	Rxin1-	31	LED-
12	Rxin1+	32	LED-
13	GND	33	NC
14	Rxin2-	34	NC
15	Rxin2+	35	VGL
16	GND	36	NC
17	RxCLK-	37	NC
18	RxCLK+	38	VGH
19	GND	39	LED+
20	Rxin3-	40	LED+



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

Absolute Maximum Ratings

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

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Values			Unit
		Min.	Typ.	MAX.	
Power voltage	VCC	3.0	3.3	3.5	V
	VGH	17.5	18.0	18.5	V
	VGL	-11.5	-10.5	-10.0	V
	VSP	—	5.5	—	V
	VSN	—	-5.5	—	V

Current Consumption

Item	Symbol	Values			Unit
		Min.	Typ.	MAX.	
Current for Driver	IGH	—	7.7	—	mA
	IGL	—	7.7	—	mA
	IVCC	—	85	130	mA