

TFT DISPLAY SPECIFICATION



RAYSTAR

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RF41010N-AYW-LNN

General Specifications

- Size: 10.1 inch
- Dot Matrix: 1920(H) x RGB x 1200(V) dots
- Module dimension: 231.40 x 152.3 x 9.1 Max mm
- Active area: 216.8064(H) x 135.504(V) mm
- Pixel pitch: 0.11292(H) x 0.11292(V) mm
- LCD type: TFT, Normally Black, Transmissive
- Interface: 2ch-LVDS
- Driver IC: FL5893DA
- Viewing Angle: 80/80/80/80 (IPS)
- Aspect Ratio: 16:10
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

TFT LCD MODULE

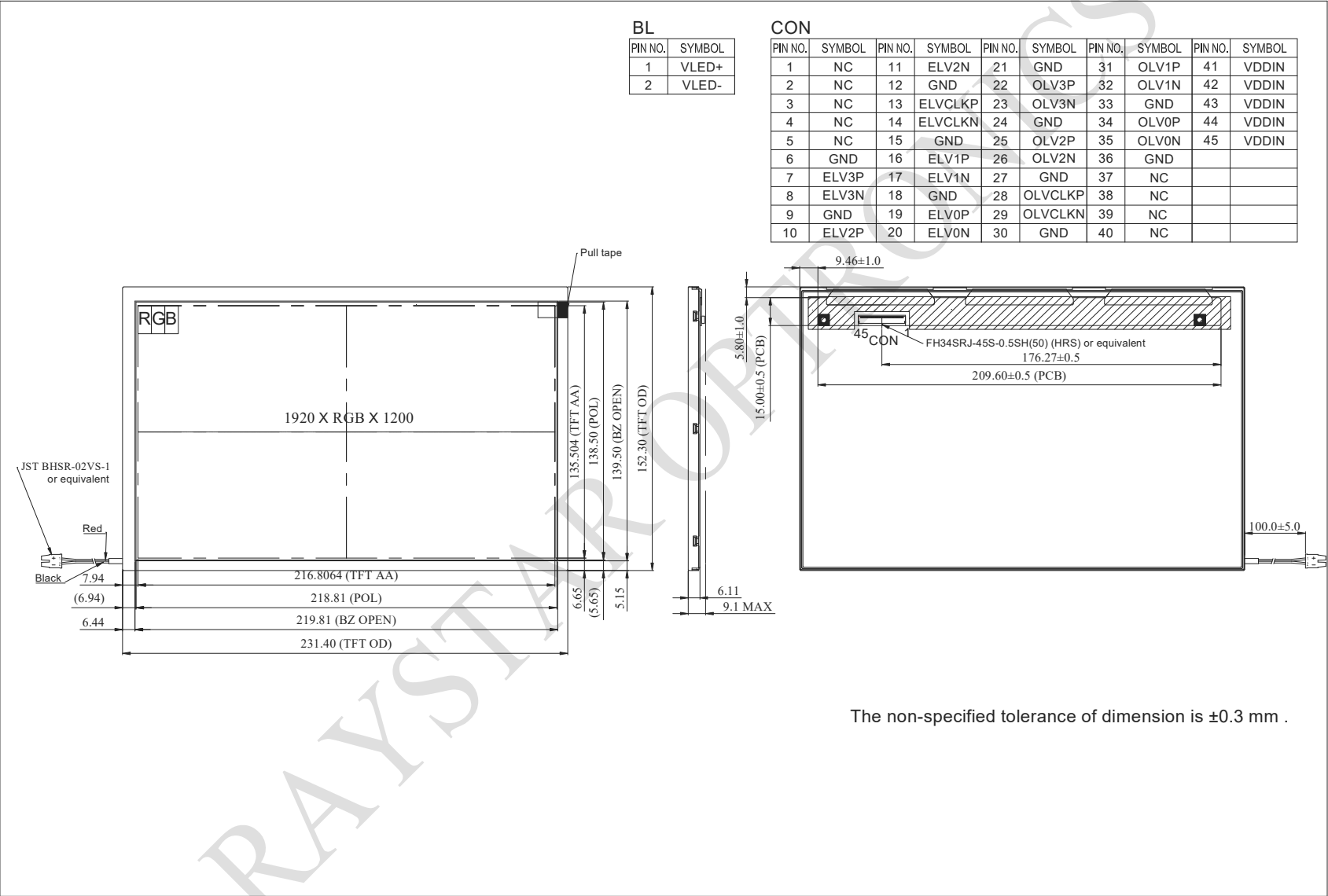
Pin No.	Symbol	Description
1-5	NC	No connection
6	GND	Ground
7	ELV3P	EVEN LVDS Positive data signal (+)
8	ELV3N	EVEN LVDS Negative data signal (-)
9	GND	Ground
10	ELV2P	EVEN LVDS Positive data signal (+)
11	ELV2N	EVEN LVDS Negative data signal (-)
12	GND	Ground
13	ELVCLKP	EVEN LVDS Positive CLK signal (+)
14	ELVCLKN	EVEN LVDS Negative CLK signal (-)
15	GND	Ground
16	ELV1P	EVEN LVDS Positive data signal (+)
17	ELV1N	EVEN LVDS Negative data signal (-)
18	GND	Ground
19	ELV0P	EVEN LVDS Positive data signal (+)
20	ELV0N	EVEN LVDS Negative data signal (-)
21	GND	Ground
22	OLV3P	Odd LVDS Positive data signal (+)
23	OLV3N	Odd LVDS Negative data signal (-)
24	GND	Ground
25	OLV2P	Odd LVDS Positive data signal (+)
26	OLV2N	Odd LVDS Negative data signal (-)
27	GND	Ground
28	OLVCLKP	Odd LVDS Positive CLK signal (+)
29	OLVCLKN	Odd LVDS Negative CLK signal (-)
30	GND	Ground
31	OLV1P	Odd LVDS Positive data signal (+)
32	OLV1N	Odd LVDS Negative data signal (-)
33	GND	Ground
34	OLV0P	Odd LVDS Positive data signal (+)

35	OLV0N	Odd LVDS Negative data signal (-)
36	GND	Ground
37 -39	NC	No connection (PIN39 and PIN40 cannot be short-circuited together)
40	NC	No connection alone
41-45	VDDIN	Power supply VDDIN=3.3V (Typ.)

Backlight PIN Definition

Pin No.	Symbol	Description
1	VLED+	Red, LED_ Anode
2	VLED-	Black, LED_ Cathode

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

Typical Operation Conditions (At Ta = 25 °C,)

Item	Symbol	Min	Typ.	Max.	Unit
Power Supply Voltage	VDDIN	3.0	3.3	3.6	V
	VRP	-	-	300	mV
Power Supply Current	IDD	-	300	360	mA
Power Consumption	PLCD	-	1	1.2	W
Rush current	IRUSH	-	-	3.0	A

Backlight Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply voltage of white LED backlight	VL	26.0	29.0	32.0	V
Current for LED backlight	IL	-	110	-	mA
LED life time	-	50,000	-	-	Hr