TFT DISPLAY SPECIFICATION



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SPECIFICATION

MODULE NO.: WF101-1280800LL#BSP0-FC

General Specifications

Item	Dimension	Unit
Size	10.1	inch
Dot Matrix	1280 x 3(R GB) x 800	dots
Module dimension	230.56 x 155.01 x 6.4	mm
Active area	216.96 (H) x 135.6(V)	mm
Pixel pitch	0.1695 × 0.1695	mm
LCD Type	TFT , Normally Black , Transmissive	
Viewing Angle	80/80/80/80(IPS)	
Pixel Arrangement	R.G.B. Vertical Stripe	
Drive IC	EK79202B1	
Backlight Type	LED,Normally White	
Aspect Ratio	16:10	
Interface	LVDS	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Electrical Characteristics

Operation Conditions

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

Backlight Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply voltage of white LED backlight	VL	13.5	15.0	16.5	V
Current for LED backlight	IL	—	630	—	mA
LED life time	-	50000	-	-	Hr

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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	NC	-	No connection

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32	NC	-	No connection
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	NC	-	No connection
40	NC	-	No connection

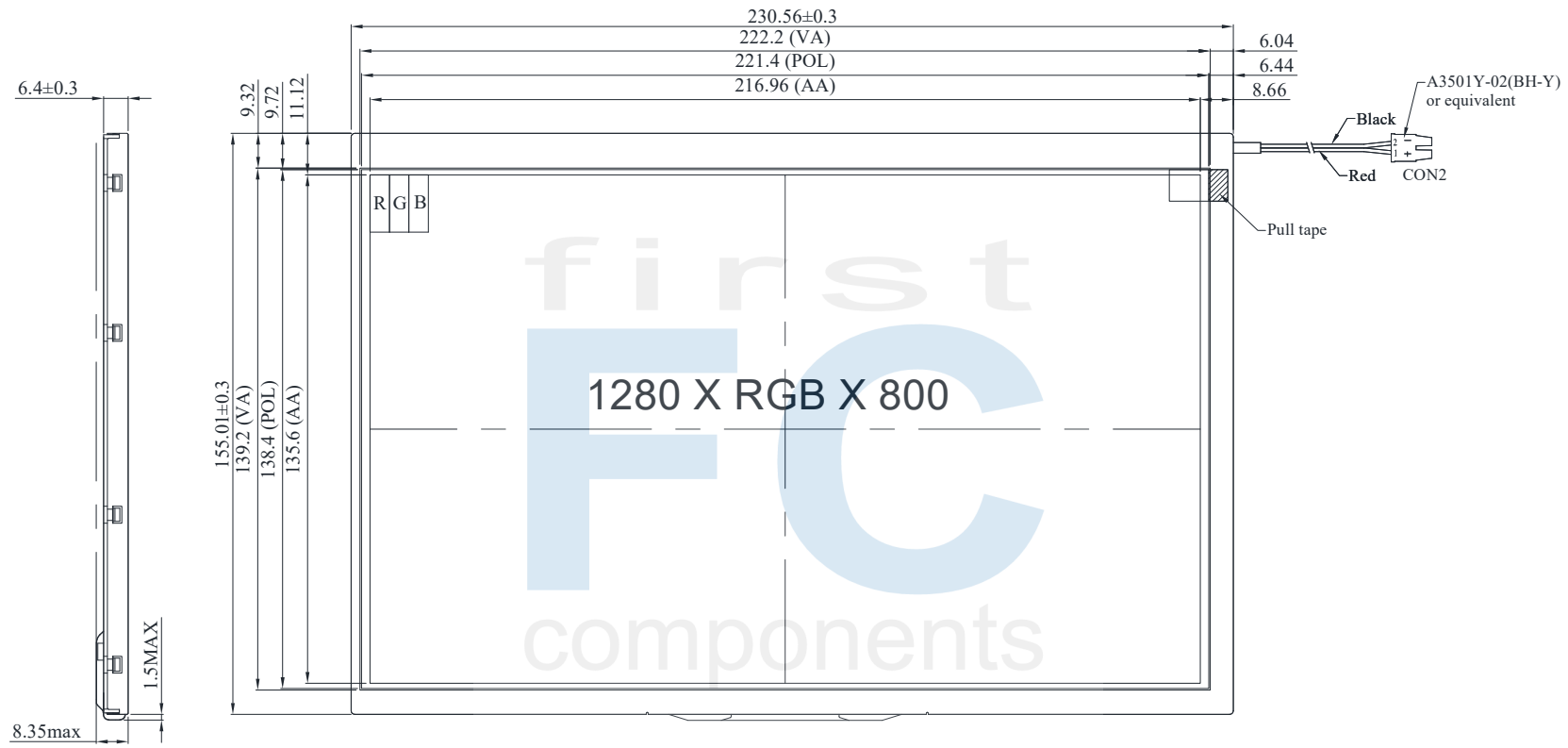
I: input, O: output, P: Power

Backlight Driving Part

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

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Contour Drawing



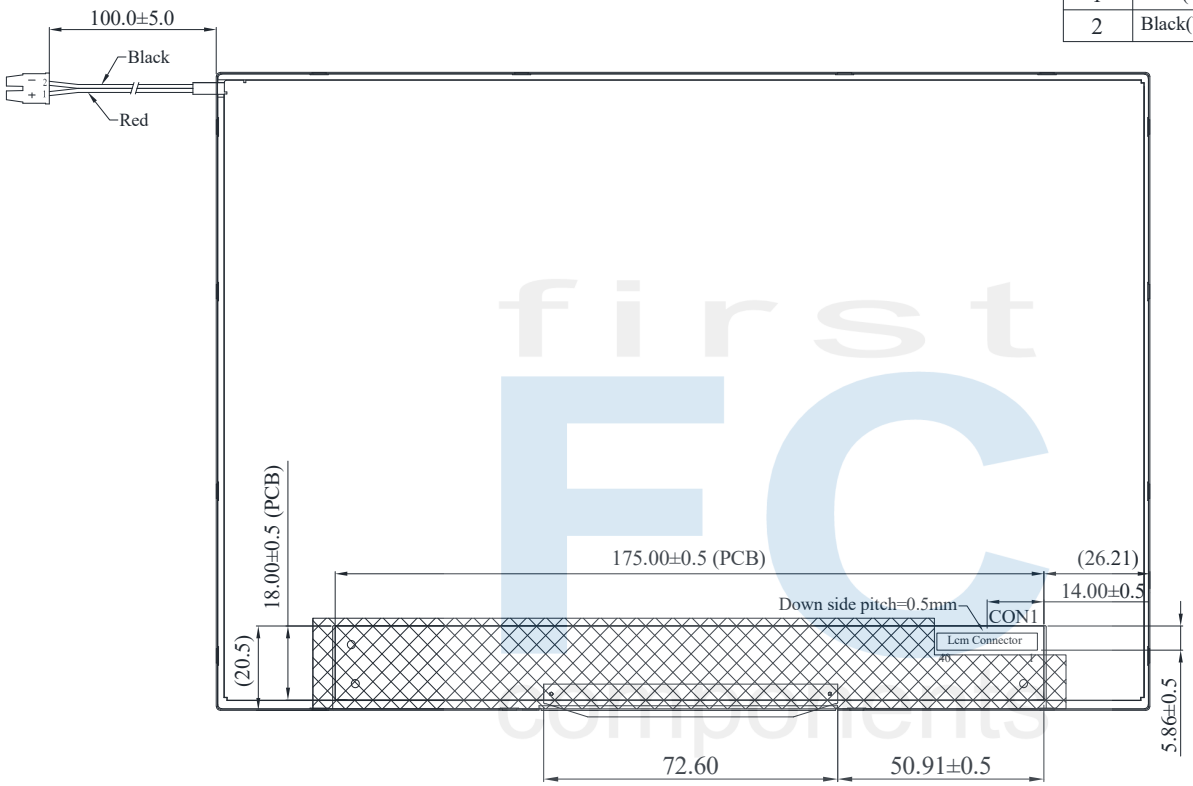
The non-specified tolerance of dimension is ±0.3 mm .

CON2

PIN NO.	SYMBOL
1	RED(VLED+)
2	Black(VLED-)

CON1

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	NC
12	Rxin1+	32	NC
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	NC
20	Rxin3-	40	NC



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

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