TFT DISPLAY SPECIFICATION

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RFF80BP-1IW-DBN

General Specifications

- Size: 8-inch
- Dot Matrix: 800 x RGB x 480 (TFT) dots
- Module Dimension: 192.8(W) x 116.9(H) x 11.9(D) mm
- Active Area: 176.64 x 99.36 mm
- Pixel Pitch: 0.2208x 0.2070 mm
- LCD Type: TFT, Normally White ,Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Controller IC: RA8875
- Interface: Digital 8080 family MPU
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

*Color tone slight changed by temperature and driving voltage.

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Interface

LCM PIN Definition

TFT LCD Panel Driving Section

FPC Connector is used for the module electronics interface.

Pin	Symbol	Function	Remark
1	GND	System ground	
2	VDD	Power Supply : +3.3V	
3	BL_E	Backlight control signal , H: On \ L: Off	
4	RS	Data/Command select	
5	WR	Write strobe signal	
6	RD	Read strobe signal	
7	DB0	Data bus	
8	DB1	Data bus	
9	DB2	Data bus	
10	DB3	Data bus	
11	DB4	Data bus	
12	DB5	Data bus	
13	DB6	Data bus	
14	DB7	Data bus	
15	DB8	Data bus	
16	DB9	Data bus	
17	DB10	Data bus	
18	DB11	Data bus	
29	DB12	Data bus	
20	DB13	Data bus	
21	DB14	Data bus	
22	DB15	Data bus	
23	WAIT	Wait Signal Output(H:active)	
24	NC	No connection	
25	CS	Chip select	
26	RESET	Hardware reset	
27	LR	Left / right selection; Default L/R=H	Note 2,3
28	UD	Up/down selection; ; Default U/D=L	Note 2,3

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29	NC	No connection	
30	NC	No connection	
31	NC	No connection	
32	NC	No connection	
33	VLED-	Power for LED backlight cathode(GND)	
34	VLED-	Power for LED backlight cathode(GND)	
35	VLED+	Power for LED backlight anode(+5V)	
36	VLED+	Power for LED backlight anode(+5V)	

Note1: When select 8bit mode, DB0~DB7 be used, DB8~DB15 no connect
When select 16bit mode, DB0~DB15 be used

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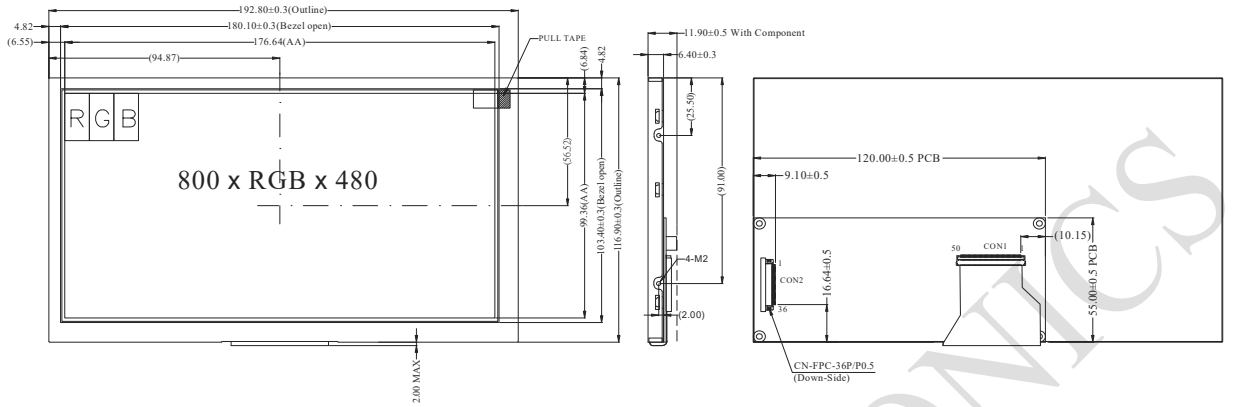
Contour Drawing



CON2

PIN NO.	SYMBOL
1	GND
2	VDD
3	NC
4	RS
5	WR
6	RD
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	DB8
16	DB9
17	DB10
18	DB11
19	DB12
20	DB13
21	DB14
22	DB15
23	WAIT
24	NC
25	CS
26	RESET
27	LR
28	UD
29	NC
30	NC
31	NC
32	NC
33	VLED−
34	VLED−
35	VLED+
36	VLED+

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

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating Conditions (CON2.Pin1=GND, Pin2=VDD)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	3.0	3.3	3.6	V
Supply Current For LCM	IDD	—	-	199	300	mA

Backlight Driving Conditions (CON2.Pin33, 34=VLED-, Pin35, 36=VLED+)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operation Current For LED Driver	VLED=5V	600	—	900	mA
Power Consumption	VLED=5V	3,000	—	4,500	mW
Supply Voltage For LED Driver	VLED+	—	5	—	V
LED Life Time	—	20,000	—	—	Hr

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