SPECIFICATION

MODULE NO.:　　　WF50FTYFGDBGA#

APPROVED BY: (FOR CUSTOMER USE ONLY)	
	PCB VERSION:　　　　　DATA:

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
			周园园

General Specifications

Item	Dimension	Unit
Size	5.0	inch
Dot Matrix	800 × 3(RGB) × 480	dots
Module dimension	120.7 x 75.8 x 8.78 (Max)	mm
Active area	108.0 x 64.8	mm
Pixel pitch	0.135 x 0.135	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	5:3	
Backlight Type	LED, Normally White	
Controller IC	SSD1963	
TFT Interface	Digital 8080 family MPU 8bit/16bit	
PCAP IC	ILI2130 or Equivalent	
PCAP Interface	I2C	
PCAP FW Version	0x07.0x00.0x00.0x00.0xA1.0x25.0x50.0x00	
PCAP Resolution	16384*16384	
Touch Panel	Projected Capacitive Touch Panel (PCAP)	
Surface	Glare	

Absolute Maximum Ratings

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

Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	3.1	3.3	3.6	V
Supply Current For LCM	IDD	—	76	114	mA

Interface

Pin	Symbol	Function
1	GND	System round pin of the IC. Connect to system ground.
2	VDD	Power Supply : +3.3V
3	BL_E	Backlight control signal , H: On \ L: Off
4	D/C	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 (When select 8bits mode, this pin is NC)
16	DB9	Data bus (When select 8bits mode, this pin is NC)
17	DB10	Data bus (When select 8bits mode, this pin is NC)
18	DB11	Data bus (When select 8bits mode, this pin is NC)
19	DB12	Data bus (When select 8bits mode, this pin is NC)
20	DB13	Data bus (When select 8bits mode, this pin is NC)
21	DB14	Data bus (When select 8bits mode, this pin is NC)
22	DB15	Data bus (When select 8bits mode, this pin is NC)
23	NC	No connection
24	PCAP_INT	PCAP_ External interrupt to the host
25	CS	Chip select
26	RST	Hardware reset

27	NC	No connection
28	NC	No connection
29	PCAP_SCL	I2C clock input
30	PCAP_SDA	I2C data input and output
31	PCAP_RST	PCAP_ External Reset, Low is active
32	NC	No connection
33	VLED-	VLED- for B/L LED inverter (GND)
34	VLED-	VLED- for B/L LED inverter (GND)
35	VLED+	VLED+ for B/L LED inverter
36	VLED+	VLED+ for B/L LED inverter

Contour Drawing
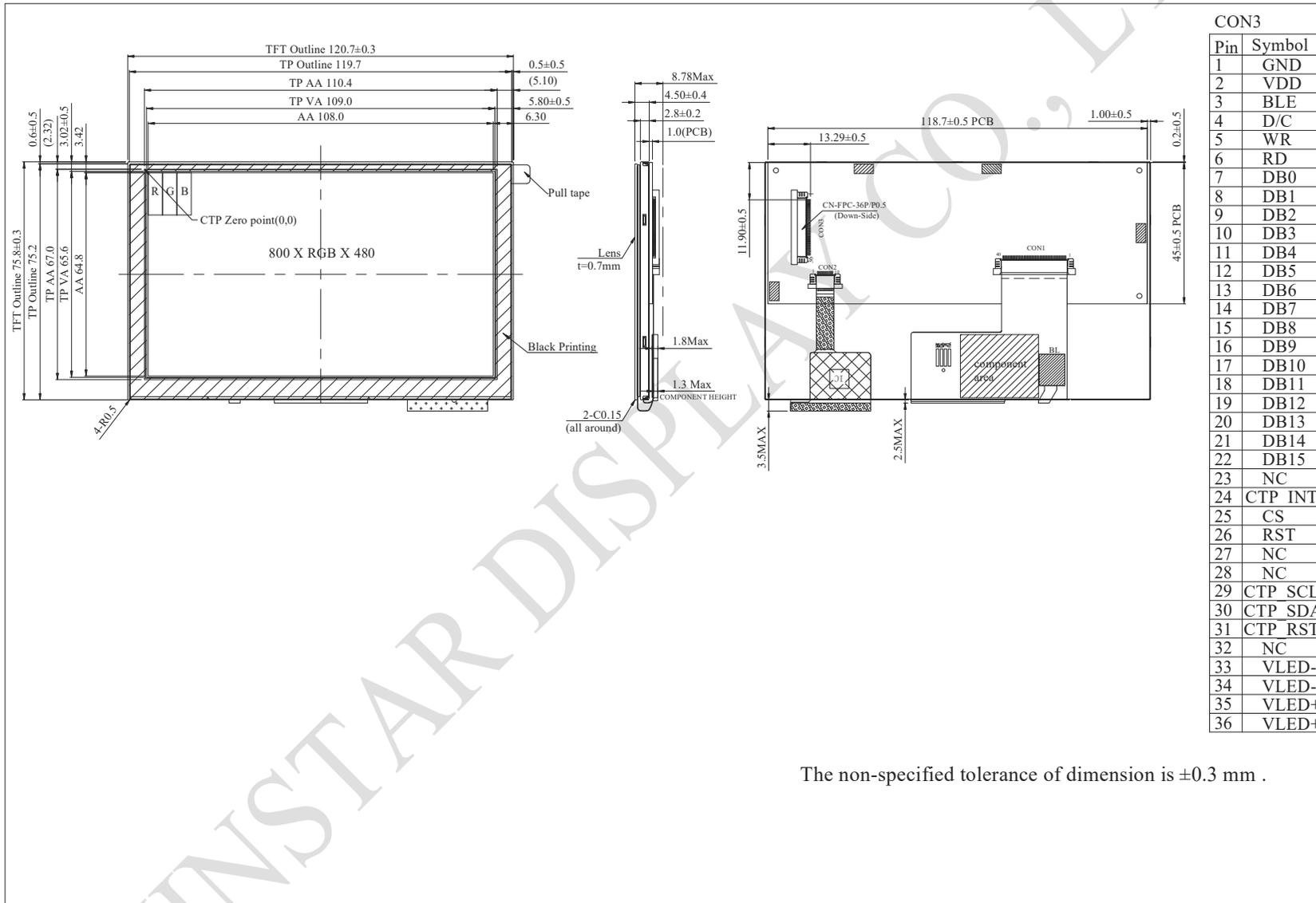
CON3	
Pin	Symbol
1	GND
2	VDD
3	BLE
4	D/C
5	WR
6	RD
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	DB8
16	DB9
17	DB10
18	DB11
19	DB12
20	DB13
21	DB14
22	DB15
23	NC
24	CTP_INT
25	CS
26	RST
27	NC
28	NC
29	CTP_SCL
30	CTP_SDA
31	CTP_RST
32	NC
33	VLED-
34	VLED-
35	VLED+
36	VLED+

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