



SPECIFICATION

MODULE NO.: WF88BTYA8MNG10#

General Specifications

Item	Dimension	Unit
Size	8.8	inch
Dot Matrix	480 x R.G.B. x 1920	dots
Module dimension	241.3 x 74.3 x 8.5	mm
Active area	218.88 x 54.72	mm
Pixel pitch	0.114 x 0.114	mm
LCD type	TFT, Normally black, Transmissive	
Viewing angle	85/85/85/85	
Aspect Ratio	1:4	
Backlight Type	LED ,Normally White	
TFT Driver IC	OTA7290N	
TFT Interface	4-Lanes MIPI	
CTP Driver IC	GT928or equivalent	
CTP Interface	I2C	
CTP FW Version	66	
CTP Resolution	480*1920	
Touch Panel	Projected Capacitive Touch Panel (PCAP)	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Electrical Characteristics

TFT LCD Module

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	VDD	3.0	3.3	3.6	V
	VGH	17.0	18.0	19.0	V
	VGL	-11	-10	-9	V
	AVDD	11.8	12	12.2	V
VCOM	VCOM	4.5	4.88	5.2	V
Input signal voltage	ViH	0.7 VDD	-	VDD	V
	ViL	0	-	0.3 VDD	V
Current of power supply	IDD	-	-	35	mA
	IADD	-	-	30	mA
	IGH	-	-	5	mA
	IGL	-	-	-5	mA
	Ivcom	-	-	0.1	mA
Supply CTP	VDDT3.3V	2.8	-	3.3	V
	IDDT3.3V	-	13.4	21.0	mA

Backlight Unit

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
LED Current	IF	-	160	-	mA	Ta=25°C
LED Voltage	VF	-	-	17.5	V	Ta=25°C
LED Life-Time	N/A		30,000	-	Hour	Ta=25°C IF=160 mA Note (2)

Interface

1. LCM PIN Definition

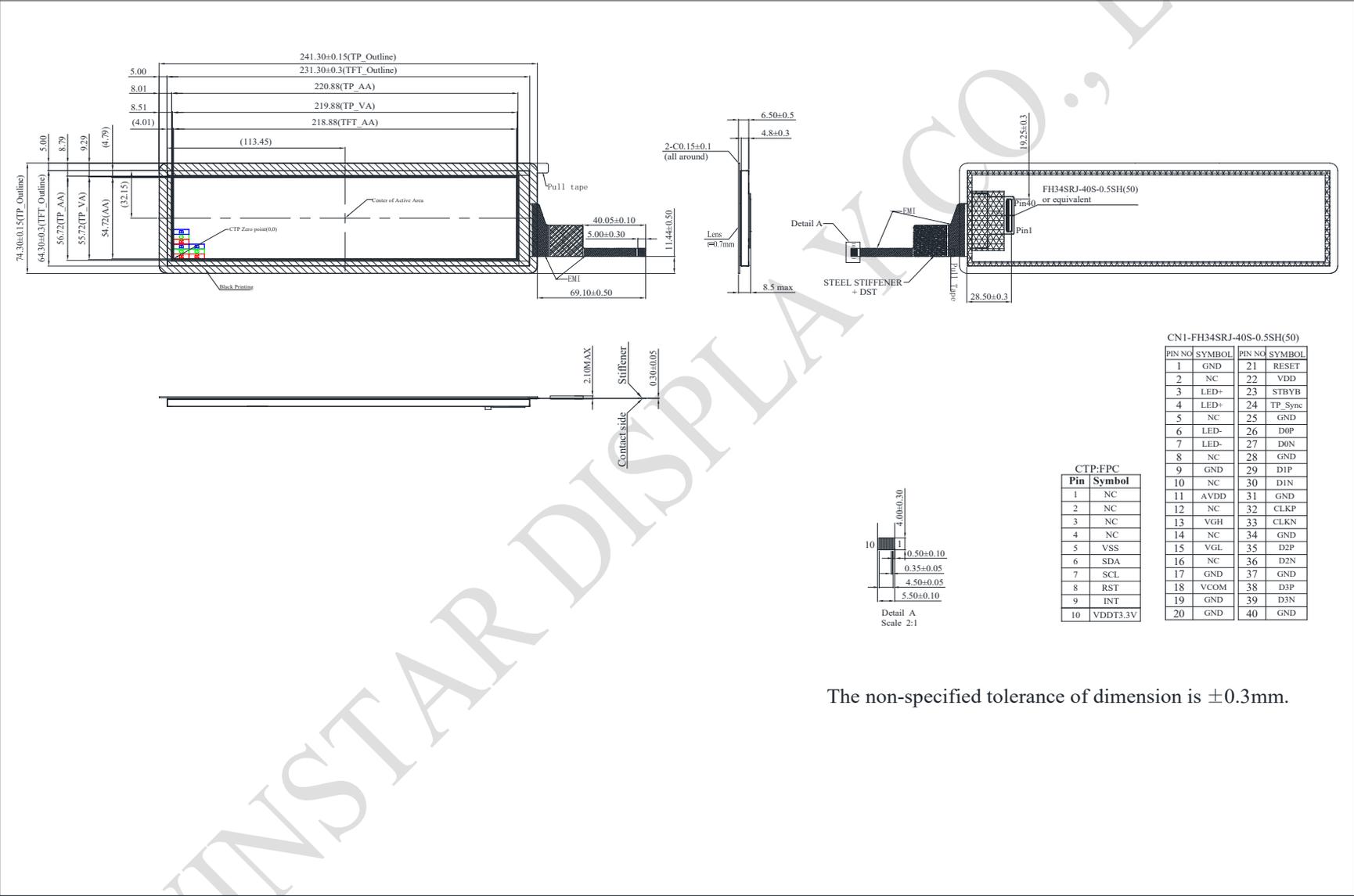
Pin No.	Symbol	I/O	Function
1	GND	P	Ground
2	NC	---	No connection
3	LED+	P	LED Anode
4	LED+	P	LED Anode
5	NC	---	No connection
6	LED-	P	LED Cathode
7	LED-	P	LED Cathode
8	NC	---	No connection
9	GND	P	Ground
10	NC	---	No connection
11	AVDD	P	Power supply for analog circuit
12	NC	---	No connection
13	VGH	P	Power supply for analog circuit
14	NC	---	No connection
15	VGL	P	Power supply for analog circuit
16	NC	---	No connection
17	GND	P	Ground
18	VCOM	P	Power supply for common voltage
19	GND	P	Ground
20	GND	P	Ground
21	RESET	I	Global reset
22	VDD	P	Power supply for digital circuits
23	STBYB	I	Standby mode
24	TP_Sync	O	Sync signal for touch panel
25	GND	P	Ground
26	D0P	I	MIPI Data Input Lane0 positive-end
27	D0N	I	MIPI Data Input Lane0 negative-end
28	GND	P	Ground
29	D1P	I	MIPI Data Input Lane1 positive-end
30	D1N	I	MIPI Data Input Lane1 negative-end
31	GND	P	Ground

32	CLKP	I	MIPI Clock Input positive-end
33	CLKN	I	MIPI Clock Input negative-end
34	GND	P	Ground
35	D2P	I	MIPI Data Input Lane2 positive-end
36	D2N	I	MIPI Data Input Lane2 negative-end
37	GND	P	Ground
38	D3P	I	MIPI Data Input Lane3 positive-end
39	D3N	I	MIPI Data Input Lane3 negative-end
40	GND	P	Ground

2. CTP PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	NC	No connection
3	NC	No connection
4	NC	No connection
5	VSS	Ground for analog circuit
6	SDA	I2C data input and output
7	SCL	I2C clock input
8	RST	External Reset, Low is active
9	INT	External interrupt to the host
10	VDDT3.3V	Power Supply : +3.3V

Contour Drawing



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