

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF39BTLASDNGA#

General Specifications

Item	Dimension	Unit
Size	3.9	inch
Dot Matrix	480 x 128 x RGB (TFT)	dots
Module dimension	105.5(W) x 37.0(H) x 5.13(D)	mm
Active area	95.04 x 25.34	mm
Dot pitch	0.066(W) x 0.198(H)	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	6 o'clock	
Gray Scale Inversion Direction	12 o'clock	
Aspect Ratio	Bar Type	
Backlight Type	LED, Normally White	
TFT Driver IC	HX8278-A or Equivalent	
TFT Interface	RGB-24BIT (SYNC mode)	
PCAP IC	GT911 or equivalent	
PCAP FW Version	77	
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

1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	3.0	3.3	3.6	V
Supply Current For LCM	ICC	—	15	25	mA
Supply Voltage For Touch Logic	V _{DDT}	2.8	—	3.3	V
	I _{DDT}	—	13.0	20.0	mA

2. LED driving conditions

Item	Symbol	MIN	TYP	MAX	Unit
Forward Current	I _{LED}	—	40	—	mA
Forward Voltage	V _{LED+}	14	15	17	V
Backlight life time	—	50000	—	—	hr

Interface

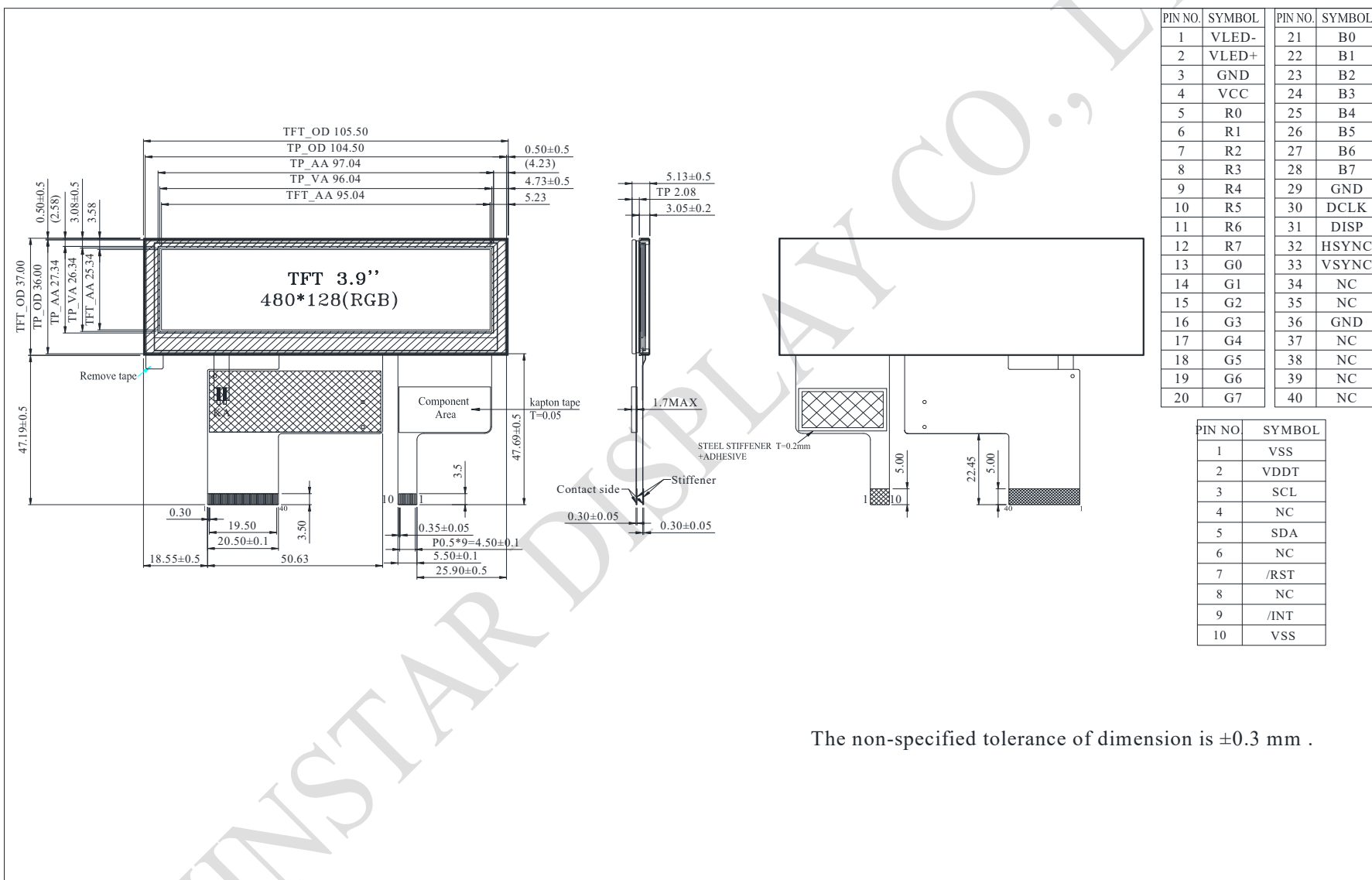
1. LCM PIN Definition

No.	Symbol	Description
1	VLED-	Backlight LED Cathode
2	VLED+	Backlight LED Anode.
3	GND	System Ground
4	VCC	Power supply for logic operation
5~12	R0~R7	Data bus
13~20	G0~G7	Data bus
21~28	B0~B7	Data bus
29	GND	System Ground
30	DCLK	Pixel clock signal
31	DISP	Display on/off control
32	HSYNC	Horizontal Sync signal
33	VSNC	Vrtical Sync signal
34	NC	No connection (Option DE)
35	NC	No connection
36	GND	System Ground
37	NC	No connection
38	NC	No connection
39	NC	No connection
40	NC	No connection

2. CTP PIN Definition

Pin	Symbol	Function
1	VSS	Ground for analog circuit
2	VDDT	Power Supply : +3.0V
3	SCL	I2C clock input.
4	NC	No connect
5	SDA	I2C data input and output
6	NC	No connect
7	/RST	External Reset, Low is active
8	NC	No connect
9	/INT	External interrupt to the host
10	VSS	Ground for analog circuit

Contour Drawing



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