

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.: WF0675ATYAB6MNG0

General Specifications

Item	Dimension	Unit
Size	6.75	inch
Dot Matrix	480 x 3(RGB) x 1280	dots
Module dimension	74.4 x 188.1 x 6.6	mm
Active area	60.19 x 160.512	mm
Pixel pitch	0.1254 x 0.1254	mm
LCD type	TFT, Normally Black ,Transmissive	
View Angle	85/85/85/85	
TFT Driver IC	FL7703NI-G5-DP or Equivalent	
TFT Interface	4-Lanes MIPI	
PCAP IC	GT911 or Equivalent	
PCAP Interface	I2C	
PCAP FW Version	0x70	
PACP Resolution	480*1280	
Backlight Type	LED, Normally White	
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

Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply voltage for LCM	VCC	3.0	3.3	3.6	V
Supply LCM current	I _{CC}	-	80	120	mA
Supply CTP	V _{CTP}	2.8	3.3	3.6	V
	I _{CTP}	-	13.0	20.0	mA

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	120	—	mA
LED voltage	V _{LED+}	15.6	18.0	20.4	V
LED Life Time	—	—	50,000	—	Hr

Interface

LCM PIN Definition

Pin No.	Symbol	Pin Description
1	GND	Ground
2	D3N	High speed interface data differential signal input pins.
3	D3P	
4	GND	Ground
5	D2N	High speed interface data differential signal input pins.
6	D2P	
7	GND	Ground
8	CLKN	High speed interface clock differential signal input pins. OPEN
9	CLKP	
10	GND	Ground
11	D1N	High speed interface data differential signal input pins.
12	D1P	
13	GND	Ground
14	D0N	High speed interface data differential signal input/output pins.
15	D0P	
16	GND	Ground
17	GND	Ground
18	TE	Serve as a TE (Tearing Effect) output signal Leave the pin open when not in use.
19	RESET	Reset pin. This signal will reset the device and must be applied to properly initialize the chip.
20	GND	Ground
21-23	VCC	Power supply
24	GND	Ground
25-28	NC	No connection
29	VLED-	Power for LED backlight cathode
30	VLED+	Power for LED backlight anode

CTP PIN Definition

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

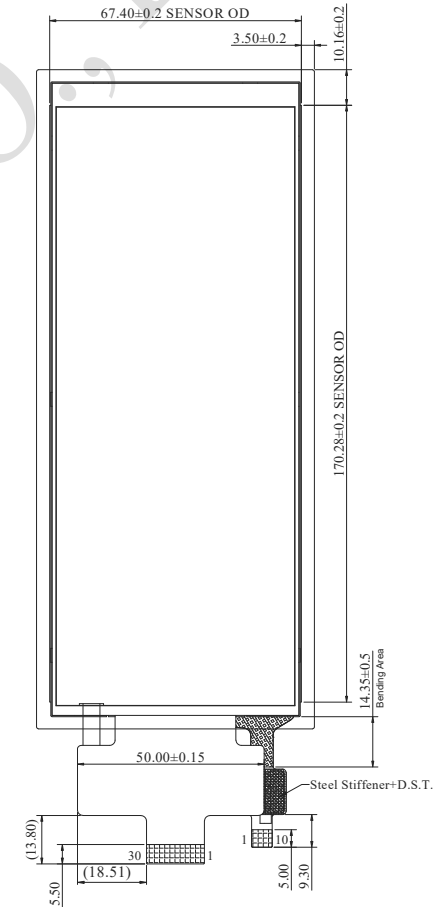
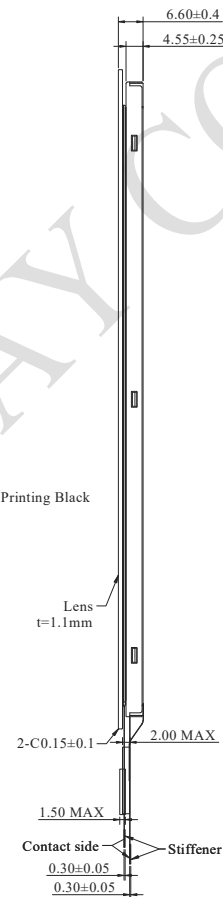
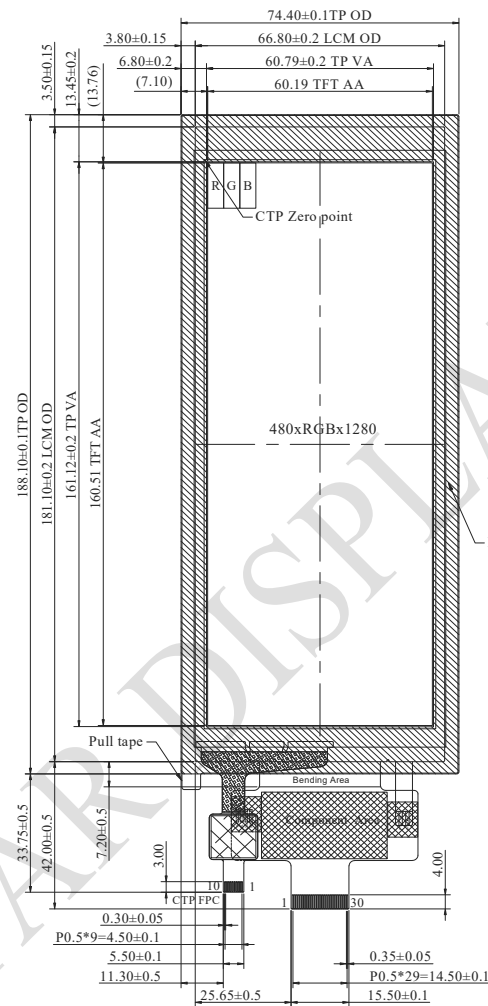
Contour Drawing

TFT FPC

PIN No.	SYMBOL	PIN No.	SYMBOL
1	GND	16	GND
2	D3N	17	GND
3	D3P	18	TE
4	GND	19	RESET
5	D2N	20	GND
6	D2P	21	VCC
7	GND	22	VCC
8	CLKN	23	VCC
9	CLKP	24	GND
10	GND	25	NC
11	D1N	26	NC
12	D1P	27	NC
13	GND	28	NC
14	D0N	29	VLED-
15	D0P	30	VLED+

CTP FPC

PIN No.	SYMBOL
1	VSS
2	VDDT
3	SCL
4	NC
5	SDA
6	NC
7	/RST
8	NC
9	/INT
10	VSS



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