



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



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### SPECIFICATION

**MODULE NO.: WF70MTABHLRN0#**

### General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	1024 x RGB x 600 (TFT)	dots
Module dimension	170.3(W) x 103.8 (H) x 20.15 (D)	mm
Active area	154.2144 x 85.92	mm
Dot pitch	0.1506 x 0.1432	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	85/85/85/85	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
Interface	Uart 19200 Baud rate/SPI	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	
Operating mode	Slave mode	
Flash Memory Size	32M bits	
SD card format	FAT, exFAT	

\*Color tone slight changed by temperature and driving voltage

\*SD format does not support NTFS

## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-10	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

## Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	+5V	—	4.5	5	5.5	V
Supply Current For LCM	—	—	—	1.46	2.19	A
Power Consumption	—	+5V	—	7.3	12.045	W

# Interface

## CON 2

Pin	Symbol	I/O	Function
1	GND	Power Supply	Power Ground
2	TX	O	Uart Transmit pin
3	RX	I	Uart Receive pin
4	5V	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	RST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	5V	Power Supply	Power supply : 5V

## CON 3

Pin	Symbol	I/O	Function
1	GND	Power Supply	Power Ground
2	SW1	I	Switch ( active low)
3	SW2	I	Switch ( active low)
4	SW3	I	Switch ( active low)
5	SW4	I	Switch ( active low)
6	GND	Power Supply	Power Ground
7	SDI	O	Master Input Slave Output (MISO)
8	SDO	I	Master Output Slave Input (MOSI)
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_INT	O	Serial Interrupt
12	5V	Power Supply	Power supply : 5V

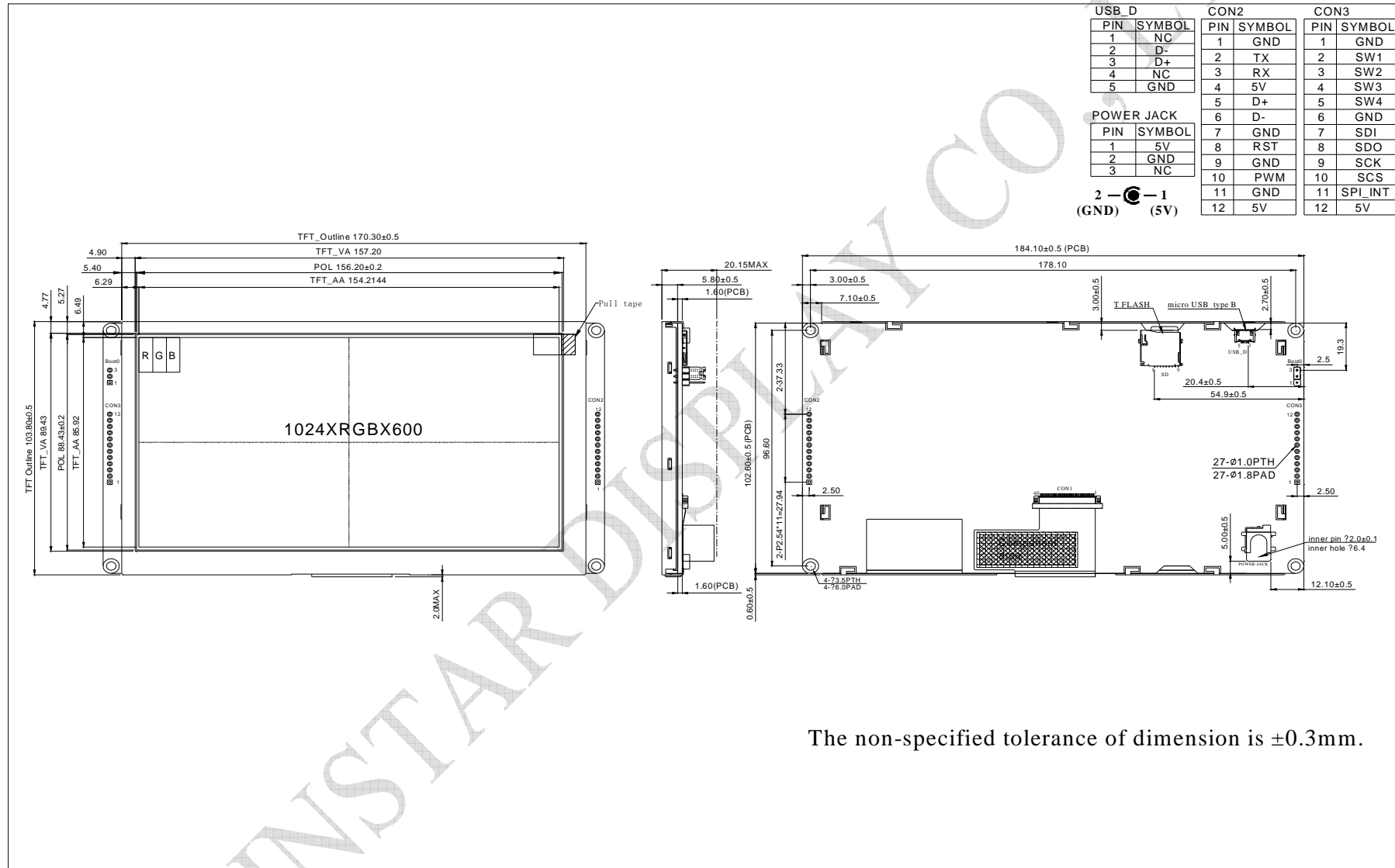
**USB\_D**

Pin	Symbol	Function
1	NC	No connection
2	D-	Data line -
3	D+	Data line +
4	NC	No connection
5	GND	Power Ground

**POWER JACK**

Pin	Symbol	Function
1	5V	Power Supply (5V)
2	GND	Ground
3	NC	No connection

# Contour Drawing



The non-specified tolerance of dimension is  $\pm 0.3\text{mm}$ .