

# TFT DISPLAY SPECIFICATION



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



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### SPECIFICATION

**MODULE NO.: WF18HSLAADNNO#**

### General Specifications

Item	Dimension	Unit
Size	1.77	inch
Dot Matrix	128 x RGB x 160(TFT)	dots
Module dimension	34.0(W) x 45.83(H) x 2.75(D)	mm
Active area	28.03 x 35.04	mm
Dot pitch	0.073 x 0.219	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	6 o'clock	
Gray Scale Inversion Direction	12 o'clock	
Aspect Ratio	Portrait	
TFT IC	ST7735S or Equivalent	
TFT Interface	SPI	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

# 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	Condition	Min	Typ	Max	Unit
Supply Voltage For Analog	VCC	—	2.5	2.75	3.7	V
Supply LCM current	ICC	—	—	0.9	2	mA

## 2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	40	—	mA
Power Consumption	—	—	124	—	mW
LED voltage	VBL+	2.9	3.1	3.4	V
LED Life Time	—	—	50,000	—	Hr

# Interface

## LCM PIN Definition

Pin	Symbol	I/O	Function
1	LED+	P	Back light anode
2	LED-	P	Back light cathode
3	SPI4W (VCC=4 WIRE)	I	- SPI4W='0', 3-line SPI Enable. - SPI4W='1', 4-line SPI Enable.
4	VCC	P	Power Supply.
5	GND	P	Ground
6	CS	I	Chip enable (CSX)
7	RST	I	Reset signal (RESX)
8	SDA	I/O	Serial input/output signal in serial interface mode.
9	SCL	I	In Serial Interface, this is used as SCL.
10	D/C	I	Data/ command selection. (D/CX)

# Contour Drawing

