TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.

華凌光電股份有限公司

SPECIFICATION

MODULE NO.: WF18HSLAADNN0#

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	

*Color tone slight changed by temperature and driving voltage.

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	–	+70	℃
Storage Temperature	TST	-30	–	+80	℃

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

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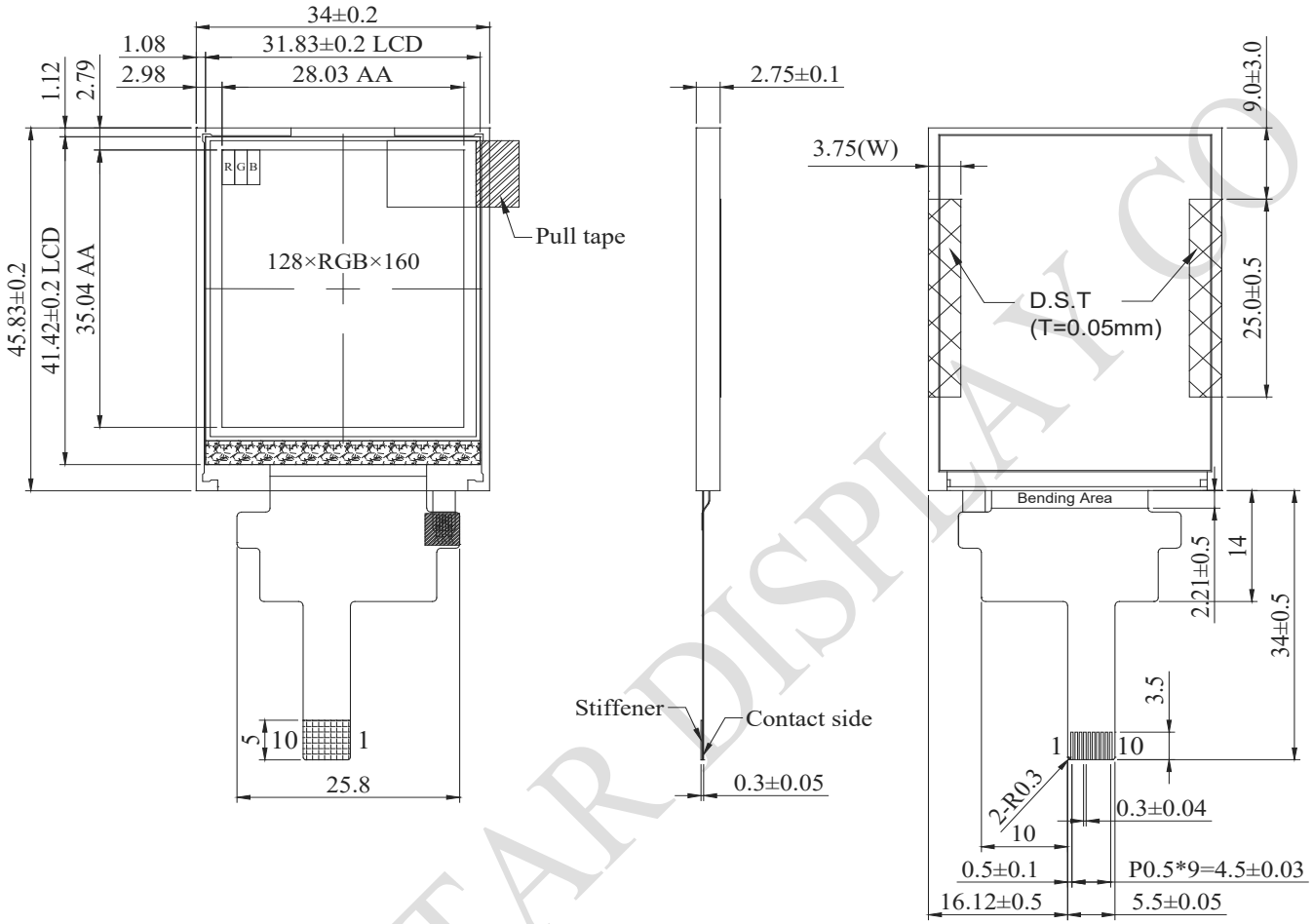
Interface

1. 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)

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Contour Drawing



NO.	SYMBOL
1	LED+
2	LED-
3	SPI4W (VCC=4 WIRE)
4	VCC
5	GND
6	CS
7	RST
8	SDA
9	SCL
10	D/C

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

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