



## SPECIFICATION

**MODULE NO.: WFN0180A2TOXASNN000**

### General Specification

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 3.11 (D)	mm
Active area	28.032 x 35.040	mm
Pixel pitch	0.219 x 0.219	mm
LCD type	TFT, Normally Black, Transmissive	
View Angle	80/80/80/80	
Aspect Ratio	Portrait	
TFT IC	NV3023B 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.

# 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
Supply Voltage	VCC	2.8	3.3	3.6
Supply LCM current	ICC	—	7	10.5

## 2. LED driving conditions

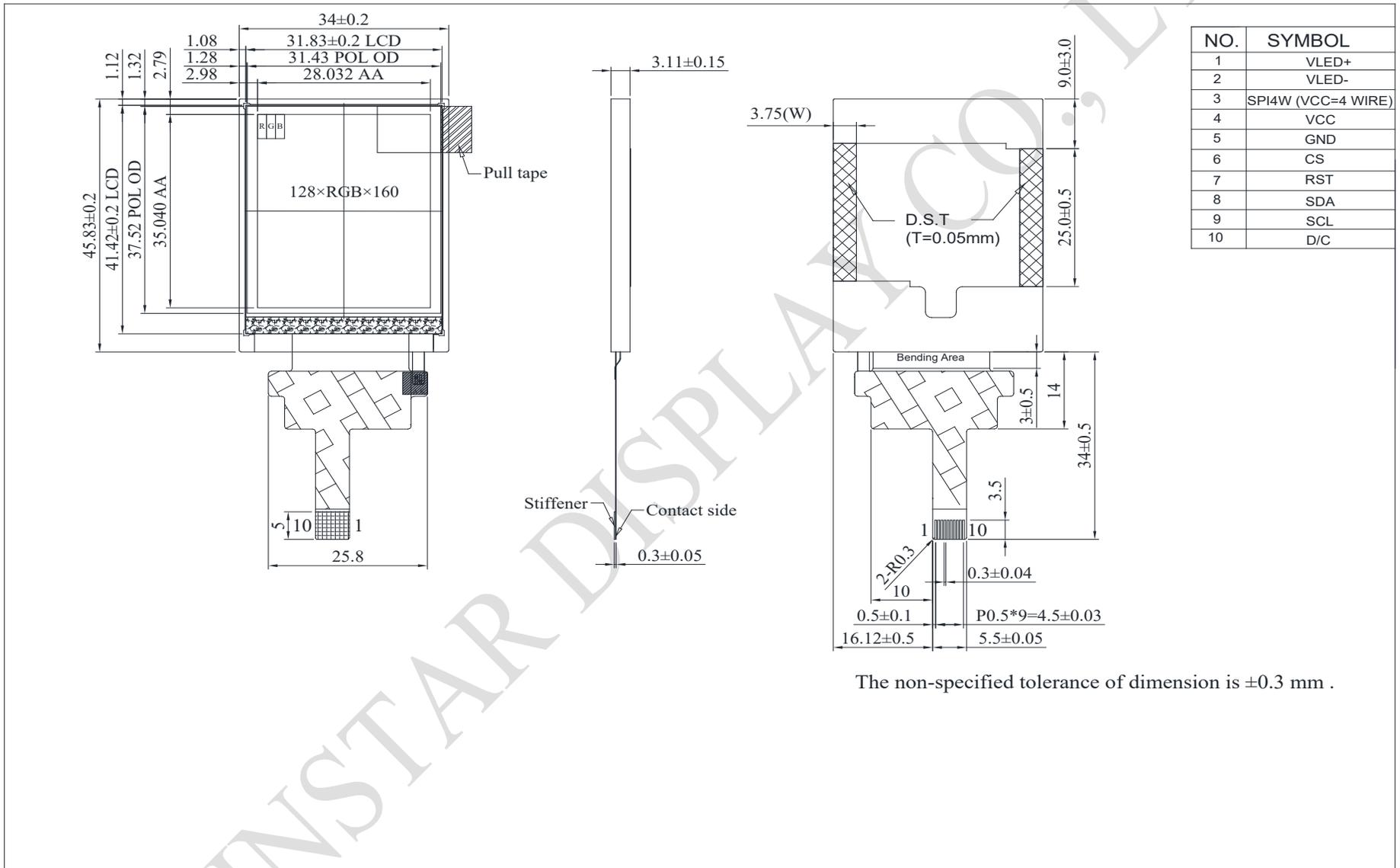
Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	60	—	mA
LED voltage	VLED+	2.7	2.9	3.3	V
LED Life Time	—	50,000	—	—	Hr

# Interface

## 1. LCM PIN Definition

Pin no	Symbol	Function
1	VLED+	Back light anode
2	VLED-	Back light cathode
3	SPI4W (VCC=4 WIRE)	SPI4W='1', SPI 4 Wire Serial SPI4W='0', SPI 3 Wire Serial
4	VCC	Power Supply.
5	GND	Ground
6	CS	Chip enable (CSX)
7	RST	Reset signal (RESX)
8	SDA	Serial input/output signal in serial interface mode.
9	SCL	In Serial Interface, this is used as SCL.
10	D/C	Data/ command selection. (D/CX)

# Contour Drawing



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