1.8" Round TFT LCD Display With ST 77916 Driver IC Ultra-wide Temperature

Basic Information

- Place of Origin: China,Shenzhen
- Brand Name: Chenghao Optoelectronic
- Certification: CE RoHS
- Model Number: CH180HV02A
- Minimum Order Quantity: 100 Pcs
- Packaging Details: All the products are packed in right way to keep it safe. For small sizes of products we use tray + carton, For bigger sizes we use foam slot + carton. we also design packages according to customers' requirements
- Delivery Time: 7-15 working days
- Supply Ability: 300Kpcs/month

Product Specification

- Product Name: TFT LCD
- Module Interface: SPI/MCU/RGB
- Viewing Direction: 85/85/85/85
- FPC Pin Number: 25pins
- Operating Temperature: -20 ~ +70 °C
- Bcaklight: 4 Pcs White LED
- Storage Temperature: -30 ~ +80 °C
- Color: 65K
- Resolution: 360*360 Dots
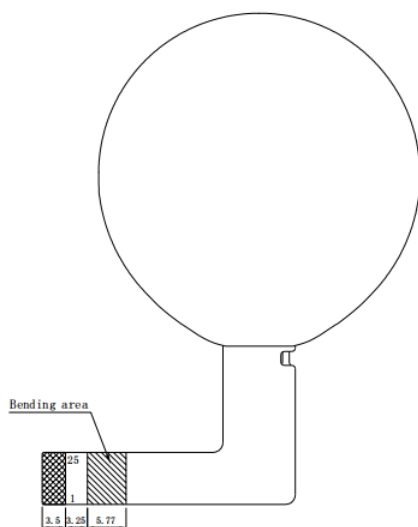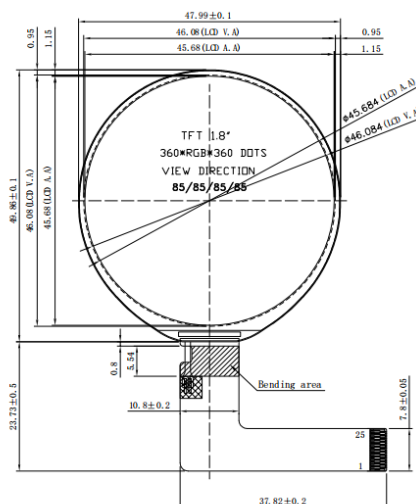- Highlight: **1.8" Round TFT LCD**, **Round TFT LCD Display**

More Images

Product Description

Product Description:

ChengHao Display introduces the CH180HV02A model, which is a color active matrix TFT LCD that utilizes amorphous silicon TFT as a switching device. This model comprises of a TFT LCD panel, a high brightness back-light, a capacitive touch panel, a driving IC, and FPC. This TFT LCD boasts a 1.8 inch round-shaped diagonally measured active display area, rendering a 360*360 resolution. The driving IC employed in this model is the ST77916, which can display 65K colors by 3line SPI or R.G.B. signal input. The driver is mounted on the glass and has interconnectivity via FPC including components to drive the display module. It supports SPI/MCU/RGB multi-interface.

Moreover, FPC can be customized to meet customer requirements, such as modifying back-light and CTP structure, interface definition, and more. In addition, this model is RoHS compliant and halogen-free, assuring compliance with environmental regulations.

Features:

High Resolution Display:
The display provides a stunning resolution of 360 x 360 pixels, delivering a high-quality visual experience to users. The high resolution of the screen makes it perfect for displaying complex graphics and text and offers fine details to enhance the overall display quality.

IPS Display Mode:
The display employs IPS (In-Plane Switching) technology to provide a wider viewing angle of up to 85°/85°/85°/85°. With IPS technology, the consistency of color and brightness is maintained when viewed from different angles. This mode ensures that users can view the details of the display without any sacrifice to the overall quality.

High-Quality Backlight:
The display features four white LED backlights, which significantly improves the brightness of the screen. The improved visibility ensures that the display is still clear and readable even in strong light environments. The backlight has a brightness of 500 cd/m², providing excellent visibility in all light conditions.

Wide Operating Temperature:
The operating temperature range of the display is -20°C to +70°C, while the storage temperature range is -30°C to +80°C. This means it can withstand different conditions, including harsh environments, and still maintain the product's stability and reliability. Users can rely on this display to function optimally under various temperature changes.

Color Performance:
The display supports 65K color displays that present rich color levels and details. It enhances the user experience and provides a more immersive visual experience. The vibrant colors will make displayed content look more attractive to users, improving the overall experience.

Flexible Interface:
The module interface offers flexibility as it supports SPI, MCU, and RGB. This means it is easy to connect with different controllers, making the integration process more straightforward. Users will have an easy time connecting the display to their device without much hassle.

Technical Parameters:

Module Name: 1.8 inch Round LCD Screen
Module No: CH180HV02A
Resolution: 360*360 dots
Display Mode: IPS/Transmissive/Normally Black
Viewing Direction: 85/85/85/85
Backlight: 4 pcs white LED
Luminance: 500 cd/m2
Operating Temperature: -20 ~ +70 ℃
Storage Temperature: -30 ~ +80 ℃
Color: 65K
Module Interface: SPI/MCU/RGB
FPC Pin Number: 25 pins

Module No	CH180HV02A
Display Type	1.8 inch TFT
Manufacturer	Chenghao Optoelectronic
Is Customization supported ?	Yes

Applications:

CH180HV02A is a circular custom LCD display that is extensively employed in various electronic devices from a diverse array of industries. This versatile display finds widespread utilization in the following projects:

Smartwatches

Fitness trackers

Medical monitoring equipment

Portable consumer electronics

With its unique circular shape, this display can be incorporated into a wide variety of products and provide a sleek, modern appearance. Additionally, its compact size and durability make it an ideal choice for electronic devices in various challenging environments.

FAQ:

1. What is the resolution of the CH180HV02A?
Answer: The resolution of the CH180HV02A is 360 x 360 pixels, providing clear and detailed image display.

2. What interfaces does this display support?
Answer: The CH180HV02A supports SPI, MCU, and RGB interfaces, making it easy to connect with various controllers.

3. What are the operating and storage temperature ranges?
Answer: The operating temperature range is -20°C to +70°C, and the storage temperature range is -30°C to +80°C.

4. How is the brightness and contrast of the display?
Answer: The brightness of the CH180HV02A is 500 cd/m², ensuring visibility in various lighting conditions.

5. What applications is this display suitable for?
Answer: The CH180HV02A is suitable for applications such as smartwatches, fitness trackers, and medical devices.

6. What type of backlight does the display use?
Answer: The CH180HV02A uses 4 white LED backlights, enhancing brightness and contrast.
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