

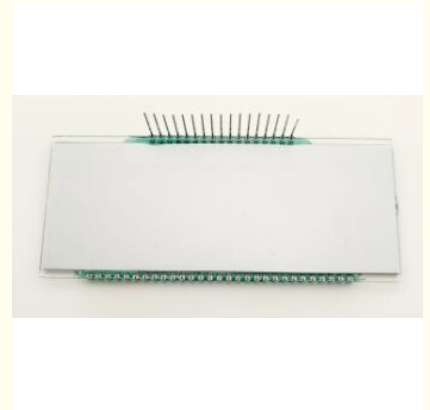
Custom Made LCD Display HTN Segment Screen 46PIN Transflective Sunlight Readable

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO90001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-47WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- Voltage: 5V
- Backlight Color: Customizable
- Operating Temperature: 0°C To 50°C
- Segment Size: Customizable
- Interface Type: PIN, 46numbers
- Dimensions: Customizable
- Lcd Type: HTN Positive, Transflective
- Viewing Angle: 6 O'clock
- Highlight: Custom HTN segment LCD display , Transflective sunlight readable LCD, 46PIN segment LCD screen



Product Description

Custom Made LCD Display HTN Segment Screen 46PIN Transflective Sunlight Readable

Detail Information

LCD Type:	HTN Positive
Polarizer Type:	Transflective
Viewing Angle:	6 O' Clock
Operating Temperature:	0~+50
Connector:	PIN, 46 Numbers
Working Voltage:	5.0V
Backlight:	White

Product Description

Custom Display LCD HTN Segment Screen 46PIN Transflective Sunlight Readable

A **segment LCD (Liquid Crystal Display)** uses liquid crystals to create visual output, typically for displaying numbers, letters, and simple symbols. Segment LCDs are most commonly used in devices such as clocks, calculators, thermometers, and other appliances where numeric or alphanumeric output is needed.

Structure and Working Principle:

How It Works :

- Each segment is an individual pixel in the display. When a voltage is applied to a segment, the liquid crystals change alignment, allowing light to pass through or be blocked. This change in alignment is what forms the visible segments.
- Segment displays typically use a backlight (like LED backlighting) to make the liquid crystals visible. The display becomes opaque in the unlit sections and transparent in the illuminated sections, forming the desired output.

Control and Driver Circuits:

- Segment LCDs require a controller or driver circuit that can control the activation of each segment. This is typically achieved with multiplexing techniques to reduce the number of control lines needed.
- In some cases, external drivers (like ICs) are used to reduce the complexity of driving a large number of segments.

Detailed Parameters:

NO.	ITEM	SPECIFICATIONS
1	LCD Type	HTN positive, Transflective
2	Viewing Angle	6 O'clock
3	Drive Method	1/4 Duty, 1/3 Bias, VOP=5.0V
4	Operating Temperature	0~+50
5	Storage Temperature	-10~+60
6	Connector	PIN, 46 numbers
7	Backlight	LED, white
8	LCD Outline Dimension	99.8(W)* 42.0(H)* 2.8(T) mm
9	View Area	96.8(W)* 35.0(H) mm



Customize HTN segment screen with 46PIN transmission for sunlight readability. Specific technical requirements and application scenarios need to be clearly defined, and then select a suitable supplier for cooperation. Here is the relevant introduction:

HTN segment screen features

HTN (High-Twist Nematic) LCD screen is an improved type of TN (Twisted Nematic) liquid crystal display technology. Its liquid crystal molecules have a larger twist angle, usually ranging from 110° to 120°. This causes more polarization direction changes when light passes through the liquid crystal layer, thus having advantages such as high contrast, wide viewing angle (usually over 120°), fast response time, and relatively low cost with high cost-effectiveness.

46PIN interface

The 46PIN interface is used to connect LCD screens with other components such as driving circuits, and can transmit data and control signals to drive and control the screen display content. Different pins define different functions, such as power supply, data input, clock signal, control signal, etc.

Transmissive sunlight readable

The transmissive LCD screen itself does not emit light and requires an external light source (such as backlight) to illuminate the screen display content. To achieve sunlight readability, it is usually necessary to increase the screen's light transmittance and contrast, reduce reflection, and may adopt special optical design or coatings. For example, using high light transmittance liquid crystal materials, optimizing the polarizer structure, adding anti-reflective films, etc., to ensure that the screen content remains clearly visible even in strong sunlight.

Customization process

Demand Analysis: Communicate with the supplier to clarify specific requirements such as application fields, functional requirements, performance indicators, etc., and determine parameters such as screen size, resolution, brightness, contrast, and operating temperature.

Solution Design: Based on the results of the demand analysis, the supplier designs a preliminary technical solution, including driver circuits, backlight systems, interface types, etc., and provides samples or simulation diagrams for customer confirmation.

Sample Production and Testing: Produce samples and conduct strict functional tests and environmental tests to ensure that all indicators meet the expected standards. Customers can conduct on-site tests and provide feedback for improvement.

Mass Production and Quality Control: After sample confirmation, the supplier conducts mass production and strictly controls quality. They provide technical support and after-sales services to solve problems encountered by customers during use.



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