

# LCM Specification

( ) Preliminary Specification

( ü ) Final Specification

PRODUCT TYPE: TFT MODULE

PRODUCT P/N: QD050001C0-40

VERSION: V1

QD

Customer

DESIGNED BY	
CHECKED BY	
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INSPECTION RESULT	
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## 1. General Description

The QD050001C0-40 V1 model is a Color TFT LCD supplied by QIAO DIAN XIAN SHI CO., LTD. This main Module has a 5.0 inch diagonally measured active display area with 800(RGB)X480 resolution. Each pixel is divided into Red, Green and Blue sub-pixels and dots which are arranged in vertical stripes.

LCD color is determined with 262,000 colors signal for each pixel.

The QD050001C0-40 V1 has been designed to apply the interface method that enables low power, high speed, and high contrast.

The QD050001C0-40 V1 is intended to support applications where thin thickness, wide viewing angle and low power are critical factors and graphic displays are important.

## 2. General Features

Item	Display Panel	Remark
Display Mode	Normally White, Transmissive LCD	
Viewing Direction	12 O'CLOCK	
Input Signals	RGB	
Outside Dimensions	120.7mm(W)*75.8mm(H)*3.10mm(T)	
Effective Area	-	
Active Area	108mm(W)×64.8mm(H)	
Number of Pixels	800×RGB×480Pixels	
Pixel Pitch	0.135mm(H)×0.135mm(W)	
Pixel Arrangement	RGB Vertical stripes	
Drive IC	OTD9960&OTA7001	

## 3. Absolute Maximum Ratings

The following are maximum values which, if exceeded may cause operation or damage to the unit.

ITEM	Symbol	Min.	Typ.	Max.	Unit	Remark
Power for Circuit Driving	VDD	-0.3	-	3.3	V	
Power for Circuit Logic	VCI	-0.3	-	5.0	V	
LC Operating Voltage *1)	Vop		3.3		V	
LED Forward Voltage	V <sub>f</sub>	-	19.2	-	V	per LED
LED Forward Current	I <sub>r</sub>	-	16	-	mA	per LED
LED Luminance	B <sub>p</sub>	-	4200	-	cd/m <sup>2</sup>	
Storage Humidity	H <sub>ST</sub>	10	-	90	%RH	At 25±5℃
Storage Temperature	T <sub>ST</sub>	-30	-	80	℃	
Operating Ambient Humidity	H <sub>OP</sub>	10	-	90	%RH	
Operating Ambient temperature	T <sub>OP</sub>	-20	-	70	℃	

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