



RAYSTAR

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司



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Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760
sales@raystar-optronics.com | www.raystar-optronics.com

RFA6400E-AWH-DNN

SPECIFICATION

General Specifications

- Size: 4.0 inch
- Dot Matrix: 480 × 3(RGB) × 480 dots
- Module dimension: 78.8(H) × 82.95 (W) × 4.77 mm
- Active area: 71.856(H) × 70.176 (V) mm
- Pixel pitch: 0.1497(H) × 0.1462(V) mm
- LCD type: TFT, Normally Black, Transmissive
- View Direction: 80/80/80/80
- Aspect Ratio: 1:1
- Interface: 24-bit RGB
- Driver IC: ST7701S or Equivalent
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

Interface

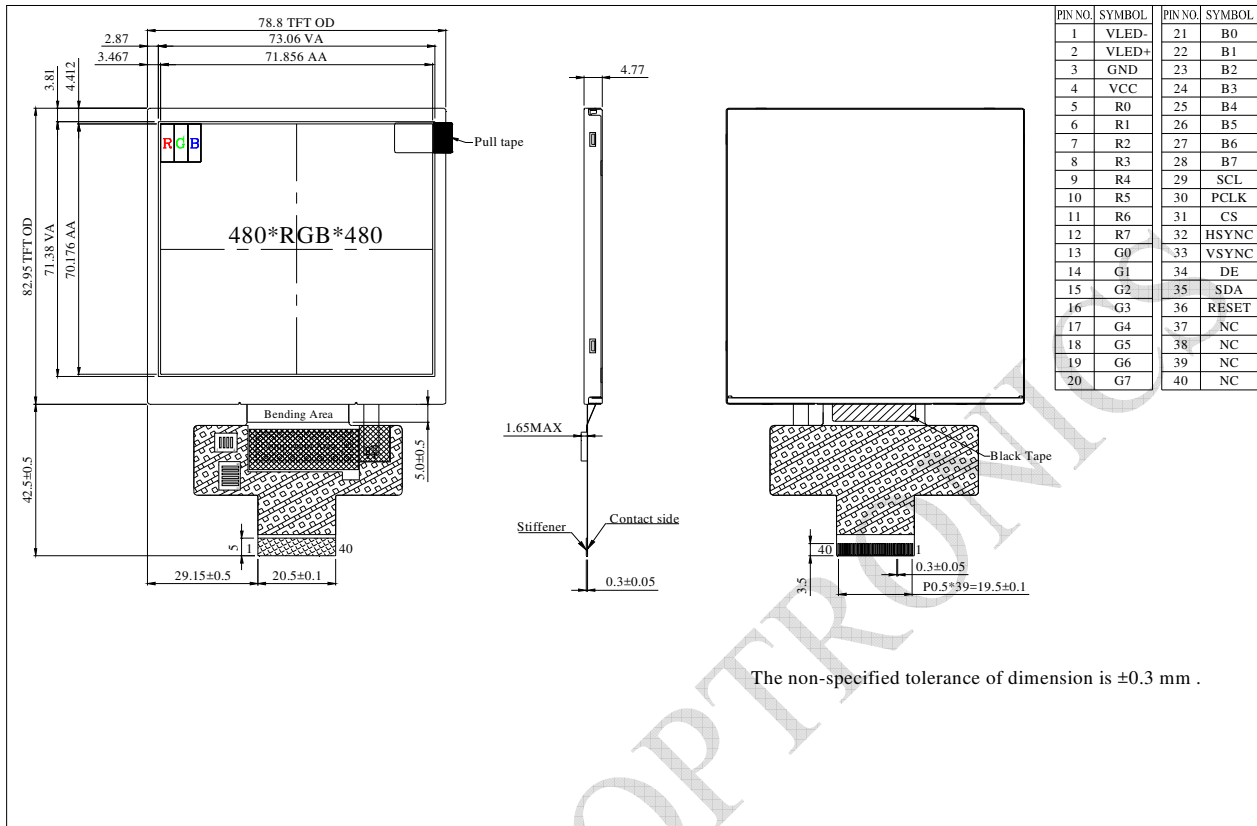
LCM PIN Definition

Pin	Symbol	Function
1	VLED-	Power for LED backlight cathode
2	VLED+	Power for LED backlight anode
3	GND	Power ground
4	VCC	Power supply
5	R0	Data bus
6	R1	
7	R2	
8	R3	
9	R4	
10	R5	
11	R6	
12	R7	
13	G0	Data bus
14	G1	
15	G2	
16	G3	
17	G4	
18	G5	
19	G6	
20	G7	
21	B0	Data bus
22	B1	
23	B2	
24	B3	
25	B4	
26	B5	
27	B6	
28	B7	
29	SCL	SCL: Serial clock input for SPI interface.
30	PCLK	Dot clock signal for RGB interface operation

31	CS	- A chip select signal Low: the chip is selected and accessible High: the chip is not selected and not accessible
32	HSYNC	Line synchronizing signal for RGB interface operation
33	VSYNC	Frame synchronizing signal for RGB interface operation
34	DE	Data enable signal for RGB interface operation Low: access enabled High: access inhibited
35	SDA	SDA: Serial data input/output bidirectional pin for SPI Interface.
36	RESET	- The external reset input - Initializes the chip with a low input. Be sure to execute a power-on reset after supplying power.
37-40	NC	No connect

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Contour Drawing



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

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Values			Unit
		Min.	Typ.	Max.	
Interface Supply Voltage	VCC	2.5	2.8	3.6	V
Current for Driver(White)	I _{VCC}	-	27	40.5	mA

Backlight Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	I _{LED}	-	120	-	mA
LED voltage	V _{LED+}	13.5	15	17	V
LED Life Time		50,000	-	-	Hr