



RAYSTAR

RAYSTAR Optronics, Inc.  
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## RFE43DM-EIW-DRG

### SPECIFICATION

#### General Specifications

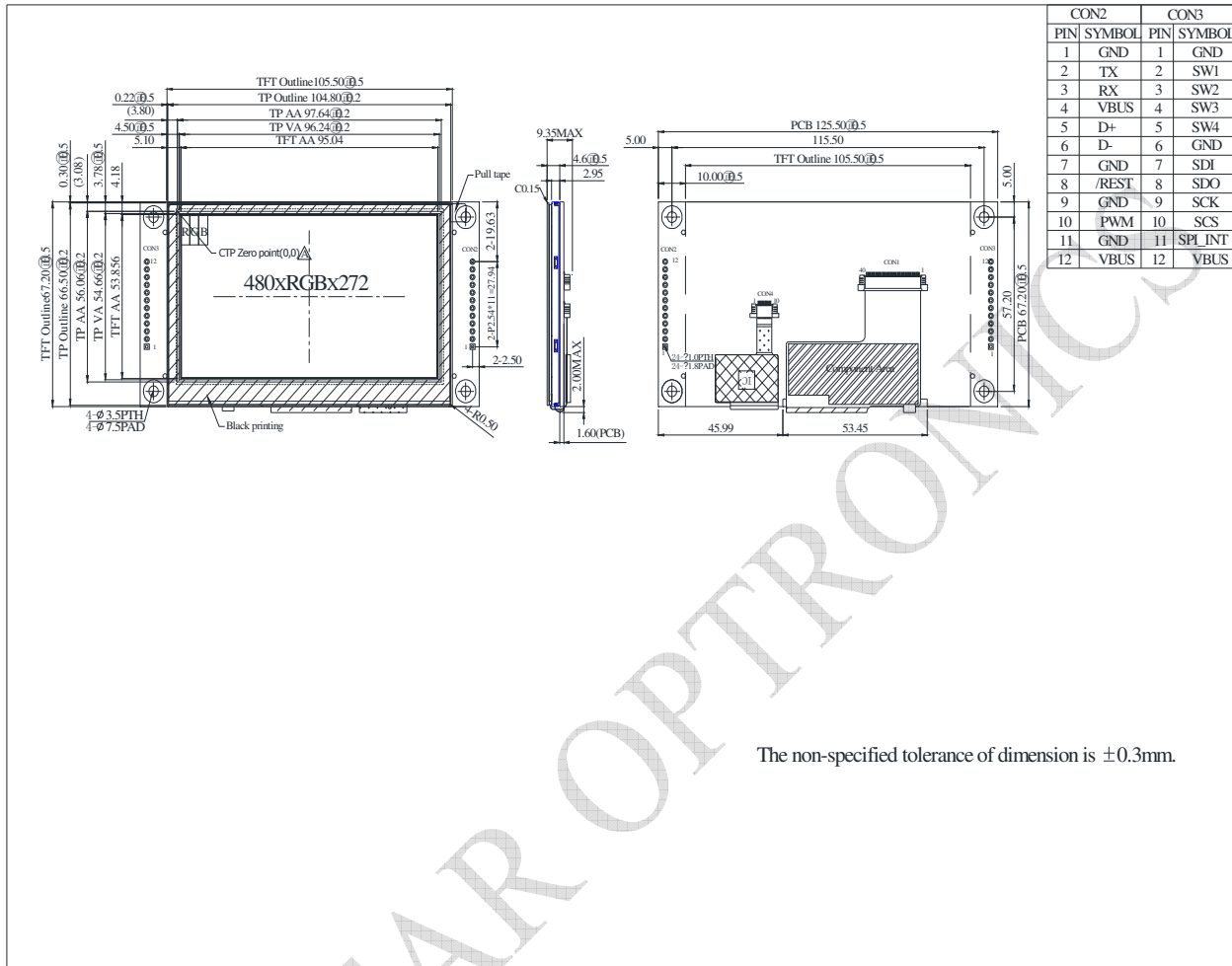
- Size: 4.3 inch
- Dot Matrix: 480 x RGB x 272(TFT) dots
- Module dimension: 125.5(W) x 67.2(H) x 9.35 (D) mm
- Active area: 95.04 x 53.856 mm
- Dot pitch: 0.066 x 0.198 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Interface: Uart 19200 Baud rate/SPI
- PCAP FW Version: 0x07.0x00.0x00.0x00.0x01.0x0C.0x11.0x43
- PCAP IC: ILI2130 or Equivalent
- PCAP Resolution: 16384\*16384
- Touch Panel: Projected capacitive touch screen (PCAP)
- Surface: Glare
- Operating mode: Slave mode
- Flash Memory Size: 32M bits

## Interface

<b>CON 2</b>			
<b>Pin</b>	<b>Symbol</b>	<b>I/O</b>	<b>Function</b>
1	GND	Power Supply	Power Ground
2	TX	O	Uart Transmit pin
3	RX	I	Uart Receive pin
4	VBUS	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	/REST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	VBUS	Power Supply	Power supply : 5V

<b>CON 3</b>			
<b>Pin</b>	<b>Symbol</b>	<b>I/O</b>	<b>Function</b>
1	GND	Power Supply	Power Ground
2	SW1	I	Switch ( active low)
3	SW2	I	Switch ( active low)
4	SW3	I	Switch ( active low)
5	SW4	I	Switch ( active low)
6	GND	Power Supply	Power Ground
7	SDI	I	Serial Data Input
8	SDO	O	Serial Data Output
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_INT	O	Serial Interrupt
12	VBUS	Power Supply	Power supply : 5V

# Contour Drawing



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

## 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	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VBUS	—	4.5	5	5.5	V
Supply Current For LCM	IBUS	—	—	250	370	mA
Power Consumption	—	VBUS=5V	—	1100	1320	mW

### 2. LED driving conditions (LED Driver system build in )

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	20	-	mA
Power Consumption	-	-	640	680	mW
LED voltage	VBL+	30	32	34	V
LED Life Time	-	-	50,000	-	Hr