

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFE43FP-EIW-DBG SPECIFICATION

General Specifications

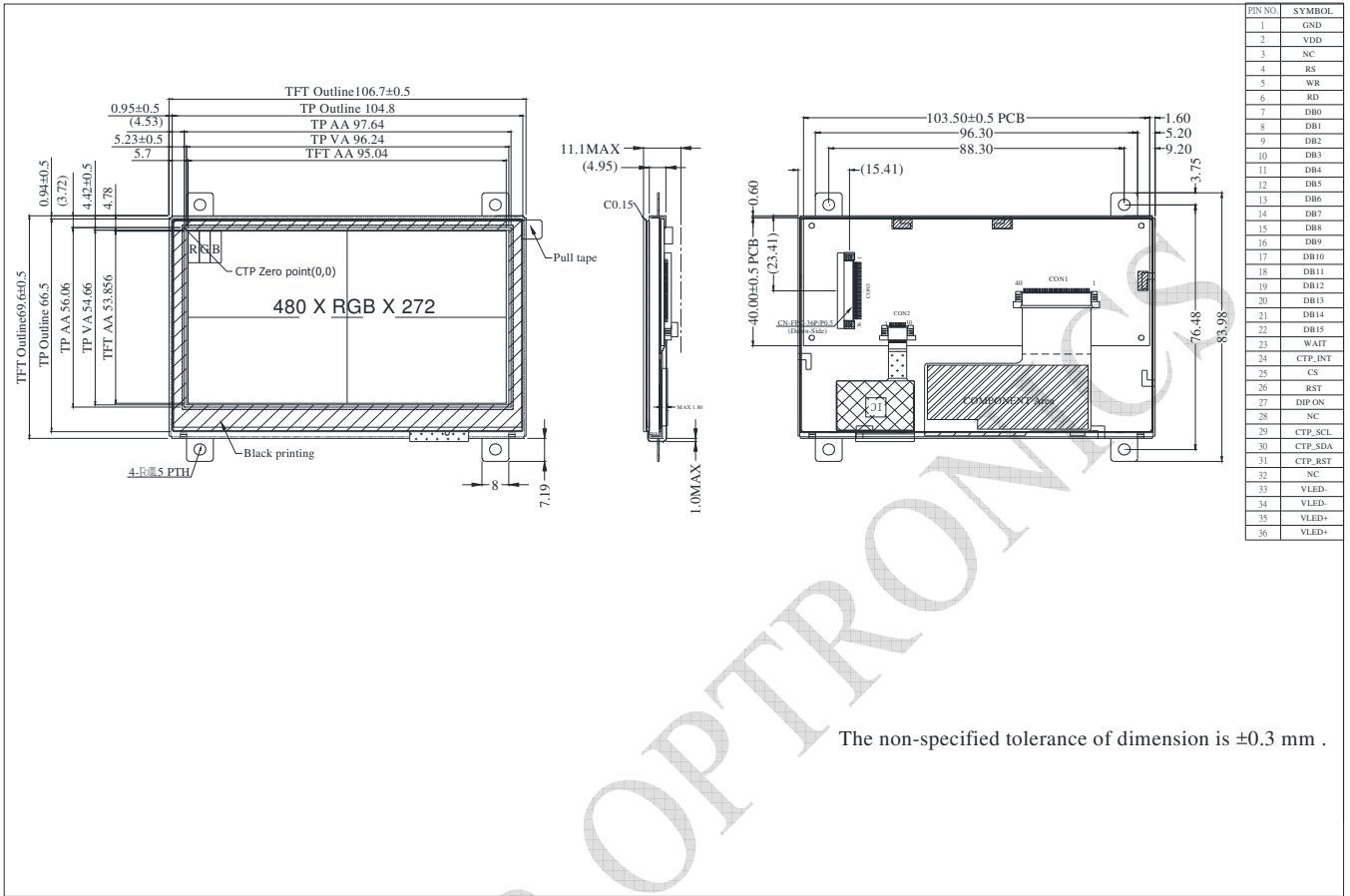
- Size: 4.3 inch
- Dot Matrix: 480 x RGBx272(TFT) dots
- Module dimension: 106.7 x 83.98 x 11.1(max) mm
- Active area: 95.04 x 53.856 mm
- Dot pitch: 0.066 x 0.198 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Controller IC: RA8875
- Interface: MCU 8080 8/16bit
- PCAP FW Version: 0x07.0x00.0x00.0x00.0x01.0x0C.0x11.0x43
- PCAP IC: ILI2130 or equivalent
- PCAP Resolution: 16384*16384
- PCAP Interface: I2C
- Touch Panel: Projected Capacitive Touch Panel (PCAP)
- Surface: Glare

Interface

LCM PIN Definition (CON3)

Pin	Symbol	Function
1	GND	System ground
2	VDD	Power Supply : +3.3V
3	NC	No connect
4	RS	Data/Command select
5	WR	Write strobe signal
6	RD	Read strobe signal
7~22	DB0~DB15	Data bus
23	WAIT	Wait Signal Output(H:active)
24	CTP_INT	CTP Interrupt
25	CS	Chip select
26	RST	Hardware reset
27	DIP ON	Display control H: On \ L:Off
28	NC	No connect
29	CTP_SCL	CTP_I2C clock input
30	CTP_SDA	CTP_I2C data input and output
31	CTP_RST	CTP_ External Reset, Low is active
32	NC	No connect
33~34	VLED-	Power for LED backlight cathode
35~36	VLED+	Power for LED backlight anode

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	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

1. Operating conditions: (CON3.Pin1=GND, Pin2=VDD)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	3.0	3.3	3.6	V
Supply Current For LCM	IDD	—	—	65	100	mA

2. Backlight driving conditions (CON3.Pin33,34=VLED-, Pin35,36=VLED+)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operation Current For LED Driver	VLED+=3.3V	270	-	405	mA
Power Consumption	VLED+=3.3V	891	-	1337	mW
Supply Voltage For LED Driver	VLED+	3.3	-	5	V
LED Life Time		-	50,000	-	Hr