

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFK121AB-AXW-LNB

General Specifications

- Dot Matrix: 1280 x R.G.B. x 800 dots
- Module dimension: 308.0*214.1*14.2(MAX) mm
- Active area: 261.12*163.2 mm
- Pixel pitch: 0.204 x 0.204 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 89/89/89/89(IPS)
- Interface: LVDS
- Driver IC: EK77526AHI205A
- Aspect Ratio: 16:9
- Backlight Type: LED ,Normally White
- PCAP Driver IC: ILI2132
- PCAP Resolution: 16384*16384
- PCAP Interface: USB (I2C available)
- PCAP FW Version: 0x07.0x00.0x00.0x00.0x02.0x00.0x00.0x00
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface Treatment: Glare

Interface

LCM PIN Definition

Pin No.	Symbol	Description
1~4	12V	LED power
5	ENLED	Enable pin
6	Dimming	Backlight Adjust
7~8	NC	No connection
9	VCC	Power supply: +3.3V
10	VCC	Power supply: +3.3V
11~12	GND	Ground
13	RX0-	Negative transmission data of pixel 0
14	RX0+	Positive transmission data of pixel 0
15	GND	Ground
16	RX1-	Negative transmission data of pixel 1
17	RX1+	Positive transmission data of pixel 1
18	GND	Ground
19	RX2-	Negative transmission data of pixel 2
20	RX2+	Positive transmission data of pixel 2
21	GND	Ground
22	RXCLK-	Negative of clock
23	RXCLK+	Positive of clock
24	GND	Ground
25	RX3-	Negative transmission data of pixel 3
26	RX3+	Positive transmission data of pixel 3
27	GND	Ground
28	SEL6/8	LVDS 6/8 bit select function control,
		Low or NC → 6 bit Input Mode
		High → 8bit Input Mode
29	GND	Ground
30	NC	No connection

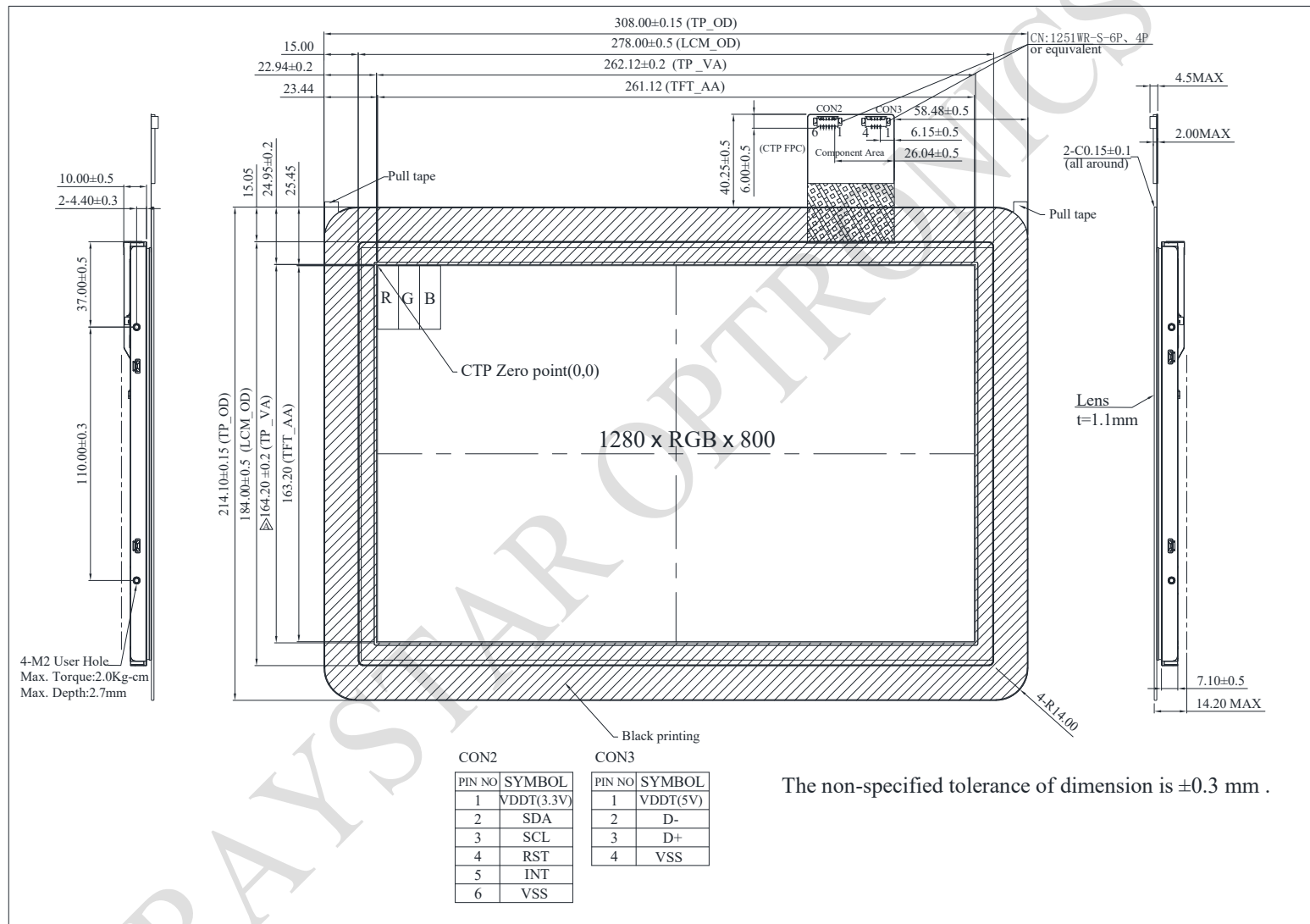
CON2

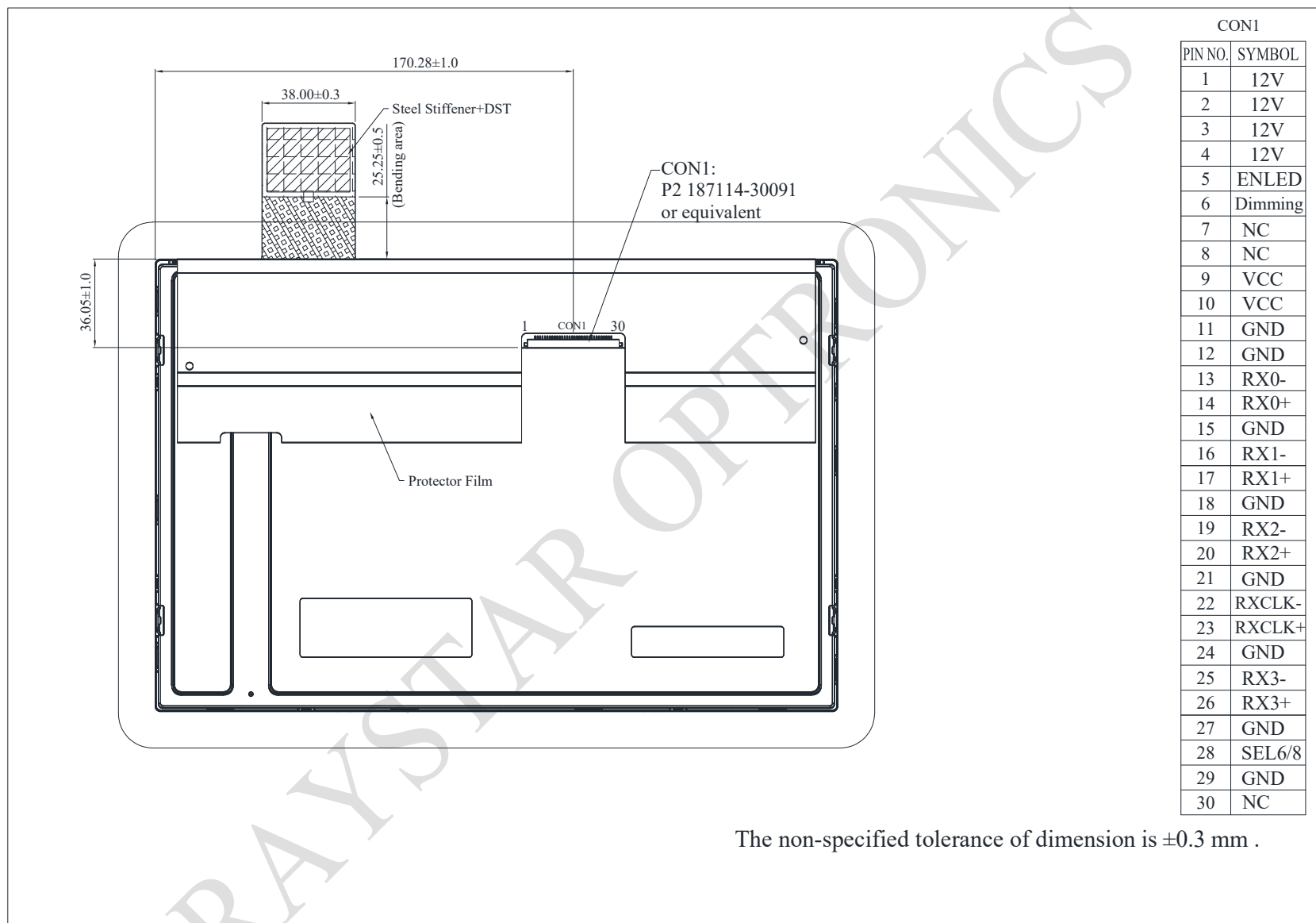
Pin	Symbol	Function
1	VDDT(3.3V)	Power supply
2	SDA	I2C data input and output
3	SCL	I2C clock inputI2C clock input
4	RST	External Reset, Low is active
5	INT	External interrupt to the host
6	VSS	Ground for analog circuit

CON3

Pin	Symbol	Function
1	VDDT(5V)	Power supply
2	D-	Data -
3	D+	Data +
4	VSS	System ground

Contour Drawing





Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-20	—	+70	°C

Electrical Characteristics

LCD ELETRONICS SPECIFICATION

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		V _{CC}	3.0	3.3	3.6	V
Permissive Ripple Voltage		V _{RP}	-	50	-	mV
Rush Current		I _{RUSH}	1.5			A
Initial Stage Current		I _{IS}	-	-	1.0	A
Power Supply Current	White	-	-	530	675	mA
	Black	-	-	350	430	mA
LVDS Differential Input High Threshold		V _{TH(LVDS)}	+100	-	-	mV
LVDS Differential Input Low Threshold		V _{TL(LVDS)}	-	-	-100	mV
LVDS Common Mode Voltage		V _{CM}	1.125	1.2	1.375	V
LVDS Differential Input Voltage		V _{ID}	100	-	600	mV
Terminating Resistor		R _T	-	100	-	Ohm
Supply PCAP		VDDT(3.3V)	3.0	3.3	3.6	V
		IDDT(3.3V)	-	85	130	mA
		VDDT(5V)	-	5.0	-	V
		IDDT(5V)	-	90	135	mA