



RAYSTAR

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RFB4700C9-AYH-MNC1

General Specification

- Size: 7.0 inch
- Dot Matrix: 280 x RGBx1424(TFT) dots
- Module dimension: 43.3(H) x 201.0(V) x 5.76(D) mm
- Active area: 33.60 (H) x170.88(V) mm
- Pixel pitch: 0.12(H) x 0.12(V) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Aspect Ratio: 1:5
- Driver IC: OTA7290N-C
- Interface: 4-Lanes MIPI
- PCAP Driver IC: GT911
- PCAP Interface: I2C
- PCAP FW Version: 71
- PCAP Resolution: X:1424 , Y:280
- Backlight Type: LED, Normally White
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare

Interface

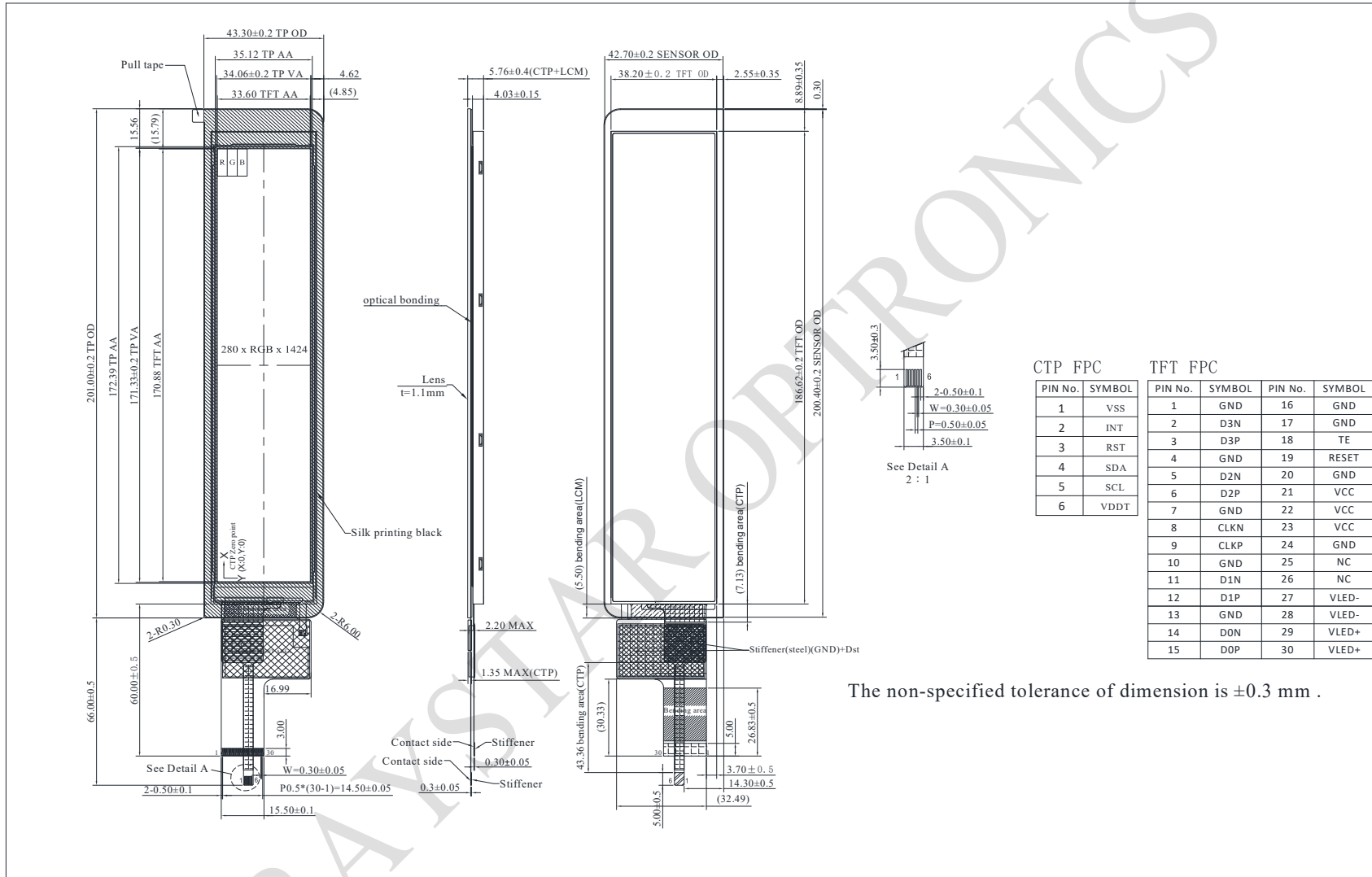
LCM PIN Definition

Pin No.	Symbol	Description
1	GND	Ground.
2	D3N	MIPI data input pins
3	D3P	
4	GND	Ground.
5	D2N	MIPI data input pins
6	D2P	
7	GND	Ground.
8	CLKN	MIPI clock input pins.
9	CLKP	
10	GND	Ground.
11	D1N	MIPI data input pins
12	D1P	
13	GND	Ground.
14	D0N	MIPI data input pins
15	D0P	
16	GND	Ground.
17	GND	Ground.
18	TE	Tearing effect output pin to synchronize to frame writing. If not used, open this pin
19	RESET	Reset signal pin
20	GND	Ground.
21-23	VCC	Power supply
24	GND	Ground.
25-26	NC	Not connect
27-28	VLED-	LED cathode
29-30	VLED+	LED anode

Touch FPC Pin Assignment

Pin No.	Symbol	Description
1	VSS	Ground
2	INT	Interrupt request to the host
3	RST	Wakeup request from the host
4	SDA	I2C data input and output
5	SCL	I2C clock input
6	VDDT	Power supply

Contour Drawing



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

TFT LCD Module

Item	Symbol	Min.	Typ.	Max.	Unit
Analog Supply voltage	VCC	3.0	3.3	3.6	V
Analog supply current	I _{cc}	-	115	175	mA
Logic input voltage	V _{IH}	0.7*VCC	-	VCC	V
	V _{IL}	GND	-	0.3*VCC	V
Supply PCAP	VDDT	2.8	3.3	3.6	V
	IDDT	-	12.2	20	mA