



RAYSTAR

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司



曜凌光電股份有限公司 Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760

salescontact@raystar-optronics.com | www.raystar-optronics.com

RFB4700C9-AYW-MNN

General Specification

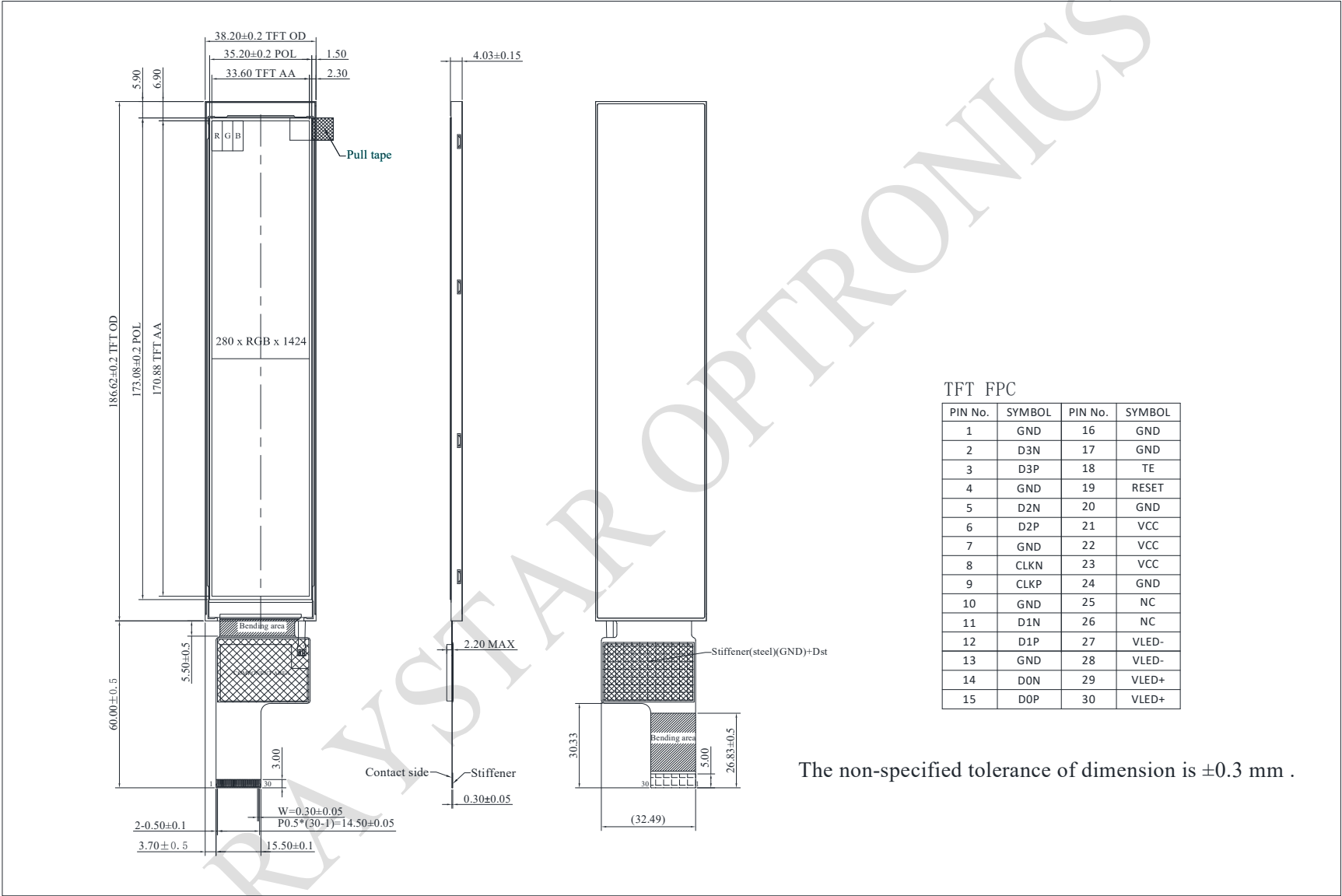
- Size: 7.0 inch
- Dot Matrix: 280 x RGB x 1424(TFT) dots
- Module dimension: 38.2(H) x 186.62 (V) x 4.03 (D) mm
- Active area: 33.60 (H) x170.88(V) mm
- Pixel pitch: 0.12(H) x 0.12(V) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Aspect Ratio: 1:5
- Driver IC: OTA7290N-C
- Interface: 4-Lanes MIPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

1. 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

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	VIH	0.7*VCC	-	VCC	V
	VIL	GND	-	0.3*VCC	V

Backlight Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	120	-	mA
LED voltage	VLED+	5.5	6.0	6.8	V
LED Life Time	-	-	50,000	-	Hr