

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFA401280B-AYW-DNF1

SPECIFICATION

General Specifications

- Size: 1.28 inch
- Dot Matrix: 240 x RGB x 240 (TFT) dots
- Module dimension: 50.20 x 50.20 x 3.99 mm
- Active area: 32.40 x 32.40 mm
- Dot pitch: 0.043 x 0.135 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80
- TFT Interface: SPI
- Backlight Type: LED, Normally White
- Driver IC: GC9A01
- PCAP Driver IC: CTS816 or equivalent
- PCAP FW Version: 0X1
- PCAP Resolution: 240*240
- Touch Panel: With PCAP
- Surface: Glare

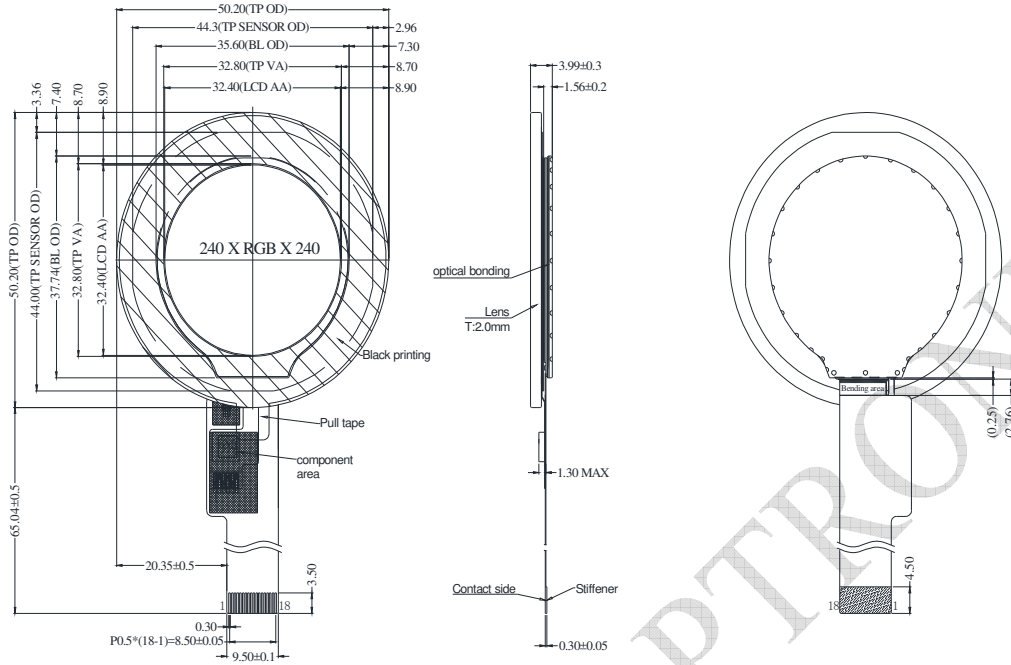
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

Pin	Symbol	Function	Remark
1	TP_INT	INTERUPT SIGNAL	
2	TP_SDA	IIC DATA	
3	TP_SCL	IIC CLOCK	
4	TP_RESET	TP RESET SIGNAL	
5	TP_GND	Ground	
6	TP_VDD3.3V	CTP POWER SUPPLY	
7	VLED+	Backlit positive	
8	VLED-	Backlit negative	
9	GND	Ground	
10	CS	Chip select signal	
11	SCL	Serial clock	
12	SDA	Serial data signal	
13	RS	Register select signal	
14	TE	TE signal	
15	RESET	LCD RESET Signal	
16	VCI3.3V	LCD Power supply	
17	NC	No connection	
18	GND	Ground	

Contour Drawing



PIN NO.	SYMBOL
1	TP_INT
2	TP_SDA
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4	TP_RESET
5	TP_GND
6	TP_VDD3.3V
7	VLED+
8	VLED-
9	GND
10	CS
11	SCL
12	SDA
13	RS
14	TE
15	RESET
16	VCI3.3V
17	NC
18	GND

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

Operating conditions

Item	Symbol	Condition s	Standard Value			Unit
			Min	Typ	Max	
Power Supply Voltage for Analog	VCI	Ta= +25°C	2.65	2.8	3.3	V
Supply PCAP	TP_VDD3.3	Ta= +25°C	2.65	2.8	3.3	V
	ICTP	Ta= +25°C	-	3.0	4.5	mA
Input High Voltage for LCD	VIH	-	0.8Iovcc	-	Iovcc	V
Input Low Voltage for LCD	VIL	-	Vss	-	0.2 Iovcc	V
Output High Voltage for LCD	VOH	-	0.8Iovcc	-	Iovcc	V
Output Low Voltage for LCD	VOL	-	Vss	-	0.2 Iovcc	V