TFT DISPLAY SPECIFICATION

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RFE430W-AWW-SNN

General Specifications

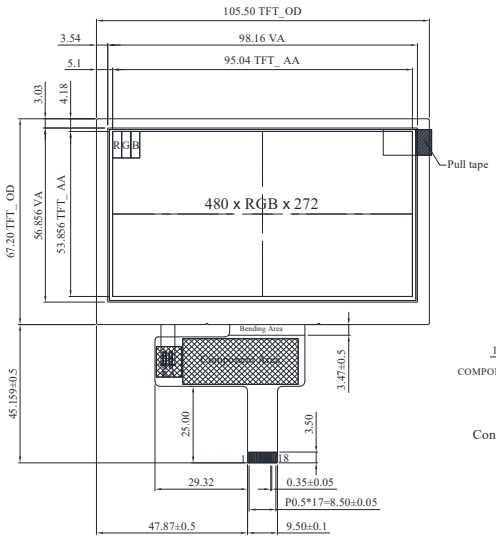
- Size: 4.3 inch
- Dot Matrix: 480 x RGB x 272 (TFT) dots
- Module dimension: 105.5(W) x 67.2(H) x 2.95(D) mm
- Active area: 95.04 x 53.856 mm
- Pixel pitch: 0.198 x 0.198 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80
- Aspect Ratio: 16:9
- TFT Driver IC: NV3041A-01
- TFT Interface: 4 Line data QSPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

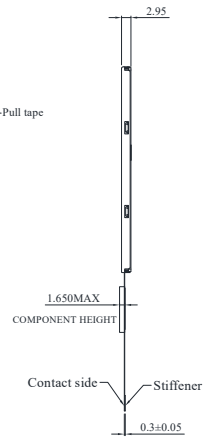
Interface

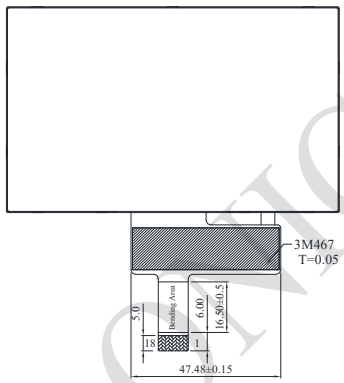
LCM PIN Definition

Pin	Symbol	Function
1	VLED-	Power for LED backlight cathode
2	VLED+	Power for LED backlight anode
3	NC	No connection
4	VCI	Power supply for analog circuit
5	IOVCC	Power supply for digital interface I/O pins
6	GND	Ground
7	RESET	Reset.
8	GND	Ground
9	CS	Chip select, internal pull high. (CSX)
10	SCL	This pin is used serial interface clock
11	GND	Ground
12	SDO1	SPI bi-direction data pin (SDA)
13	SDO2	Std-SPI(4 wire): command or parameter select. Quard-SPI: the second data pin (DCX)
14	SDO3	The third pin of Quard-SPI (DB[2])
15	SDO4	The fourth pin of Quard-SPI (DB[3])
16	GND	Ground
17	TE	Tearing effect output pin is used to synchronize MCU frame writing, activated by S/W command. When this pin is not activated (TE function OFF), this pin is GND level.
18	GND	Ground

Contour Drawing







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13	SDO2
14	SDO3
15	SDO4
16	GND
17	TE
18	GND

Note.

380nm transmittance(UV Cut at 380nm)<1.0%

The non-specified tolerance of dimension is ±0.3 mm .

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Operating Conditions

Item	Symbol	Min	Typ	Max	Unit	Remark
Power supply for analog circuit	VCI	3.0	3.3	3.6	V	
Power supply for logic circuit	IOVCC	1.65	1.8	3.3	V	VCI= 3.3V
Current for Driver	I_{VCI}	-	30	45	mA	VCI= 3.3V
	I_{IOVCC}	-	20	30	mA	IOVCC=1.8V

LED Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	20	-	mA
Power Consumption	-	540	640	680	mW
LED voltage	VLED+	27	32	34	V
LED Life Time	-	50,000	-	-	Hr