

TFT2,4“ ILI9341 SPI INTERFACE DISPLAY MODULE

General Specifications

Item	Dimension	Unit
Size	2.4"	
Dot Matrix	240 x RGB x 320(TFT)	dots
Module dimension	60,0(W) x 51,0(H) x 12.0(D)	mm
Active area	36.72 x 48.96	mm
Dot pitch	0.153 x 0.153	mm
LCD type	TFT, Normally Black, Transmissive	
Controller IC	ILI9341V or equivalent	
Viewing angle	80/80/80/80	
Aspect Ratio	Portrait	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For Analog	VCI	2.5	—	3.3	V
Supply Voltage For Logic	IOVCC	2.5	—	3.3	V
Supply Current For LCM	ICC	IOVCC=VCI =VCC=3.0V	6	9	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	80	—	mA
Power Consumption	—	—	280	—	mW
LED voltage	VBL+	2.8	3.5	3.7	V
LED Life Time	—	50,000	—	—	Hr

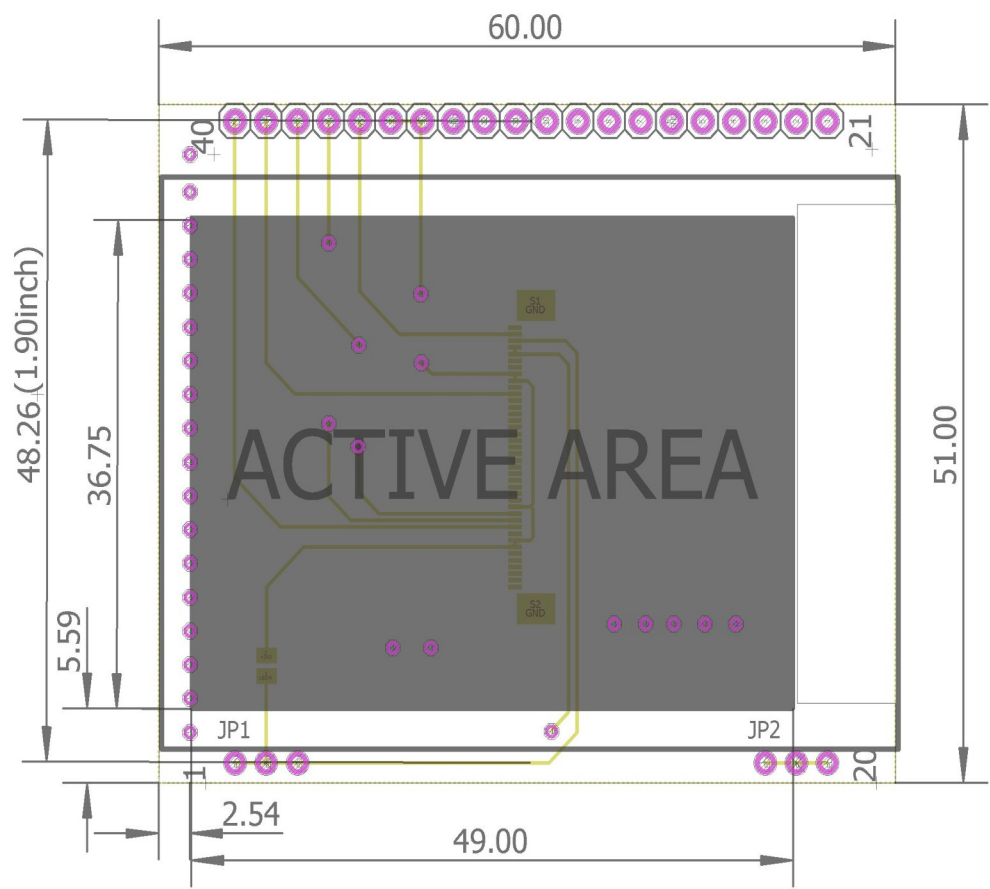
INTERFACE

Pin	Symbol	Level	Function	Pin	Symbol	Level	Function
1			LEDA	21	NC		
2			LEDA	22	NC		
3			LEDA	23	NC		
4				24	NC		
5				25	NC		
6				26	GND		Power Supply 0V
7				27	NC		
8				28	NC		
9				29	NC		
10				30	NC		
11				31	NC		
12				32	NC		
13				33	GND		Power Supply 0V
14				34	VCC		Power Supply 2,5-3,3V
15				35	VCC		Power Supply 2,5-3,3V
16				36	MOSI	H/L	Serial Data In
17				37	CLK	H/L	Clock signal
18			LEDK	38	D/C	H/L	Data/Command
19			LEDK	39	RST	L	Reset
20			LEDK	40	CS	L	Chip Select

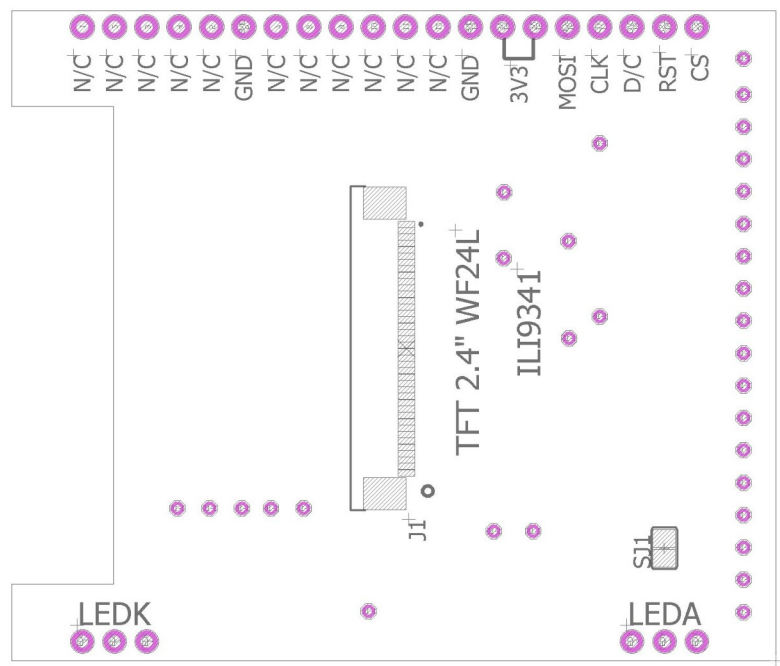
SJ1 – SMD solder jumper for backlight, if soldered, VCC is connected with LEDA
 For lower brightness use a R0805 instead with $R \approx 30-100 \text{ Ohm}$.

Module Drawings

TOP VIEW



BOTTOM VIEW



MODULE PICTURES

