

2.4 INCH 500 cd/m2 TFT DISPLAY**P/N: DJA-2572-S000**

General Specifications

Size: 2.4"

1. Dot Matrix: 240 x RGB x 320(TFT) dots
2. Module dimension: 42.72(W) x 60.26(H) x 2.8(D) mm
3. Active area: 36.72 x 48.96 mm
4. Dot pitch: 0.153 x 0.153 mm
5. LCD type: TFT, Normally Black, Transmissive
6. Controller IC: ILI9341V
7. Viewing angle: 80/80/80/80 (IPS)
8. Aspect Ratio: Portrait
9. Backlight Type: LED, Normally White
- 10.Touch Panel: Without Touch Panel
- 11.Surface: Glare



Interface

LCM PIN Definition

NO	Symbol	Function	I/O
1	GND	Ground	P
2-6	NC	No connection	-
7	VCI	High voltage power supply for analog circuit blocks (2.5 ~ 3.3 V)	P
8	IOVCC	Low voltage power supply for interface logic circuits (2.5 ~ 3.3 V)	P
9	TE	Tearing effect output pin to synchronize MPU to frame writing, activated by S/W command. When this pin is not activated, this pin is low. If not used, open this pin.	O
10	CS	Chip select signal.	I
11	D/CX(SCL)	(D/CX): This pin is used to select "Data or Command" in the parallel interface. When DCX = 1, data is selected. When DCX = 0, command is selected. (SCL): This pin is used as the serial interface clock in 3-wire 9-bit/4-wire 8-bit serial data interface. If not used, this pin should be connected to IOVCC or GND.	I
12	WR(SPI_D/C)	(WRX) - 8080- I /8080- II system: Serves as a write signal and writes data at the rising edge. (D/CX) - 4-line system: Serves as the selector of command or parameter. Fix to IOVCC level when not in use.	I
13	RD	8080- I /8080- II system (RDX): Serves as a read signal and MCU read data at the rising edge. Fix to IOVCC level when not in use.	I
14-29	DB0~DB15	18-bit parallel bi-directional data bus for MCU system. Fix to GND level when not in use.	I/O
30	RESET	(RESX) This signal will reset the device and must be applied to properly initialize the chip. Signal is active low.	I
31	IM0	Select the MCU interface mode	I
32	IM1		
33	IM2		



		IM2	IM1	IM0	MCU-Interface Mode	DB Pin in use			
						Register/Content	GRAM		
		0	0	0	80 MCU 8-bit bus interface I	D[7:0]	D[7:0]		
		0	0	1	80 MCU 16-bit bus interface I	D[7:0]	D[15:0]		
		0	1	0	80 MCU 9-bit bus interface I	D[7:0]	D[8:0]		
		0	1	1	80 MCU 18-bit bus interface I	D[7:0]	D[17:0]		
		1	0	1	3-wire 9-bit data serial interface I	SDA: In/OUT			
		1	1	0	4-wire 8-bit data serial interface I	SDA: In/OUT			
MPU Parallel interface bus and serial interface select If use RGB Interface must select serial interface. * : Fix this pin at IOVCC or GND.									
34	DB16	18-bit parallel bi-directional data bus for MCU system and RGB interface mode Fix to GND level when not in use.							I/O
35	DB17								
36	LEDK	Cathode of LED backlight.							P
37	LEDK	Cathode of LED backlight.							P
38	LEDA	Anode of LED backlight.							P
39	SDA	SDA : Serial in/out signal. The data is applied on the rising edge of the SCL signal. If not used, fix this pin at IOVCC or GND.							I/O
40	NC	Not used, open this pin							N



Absolute Maximum Ratings

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

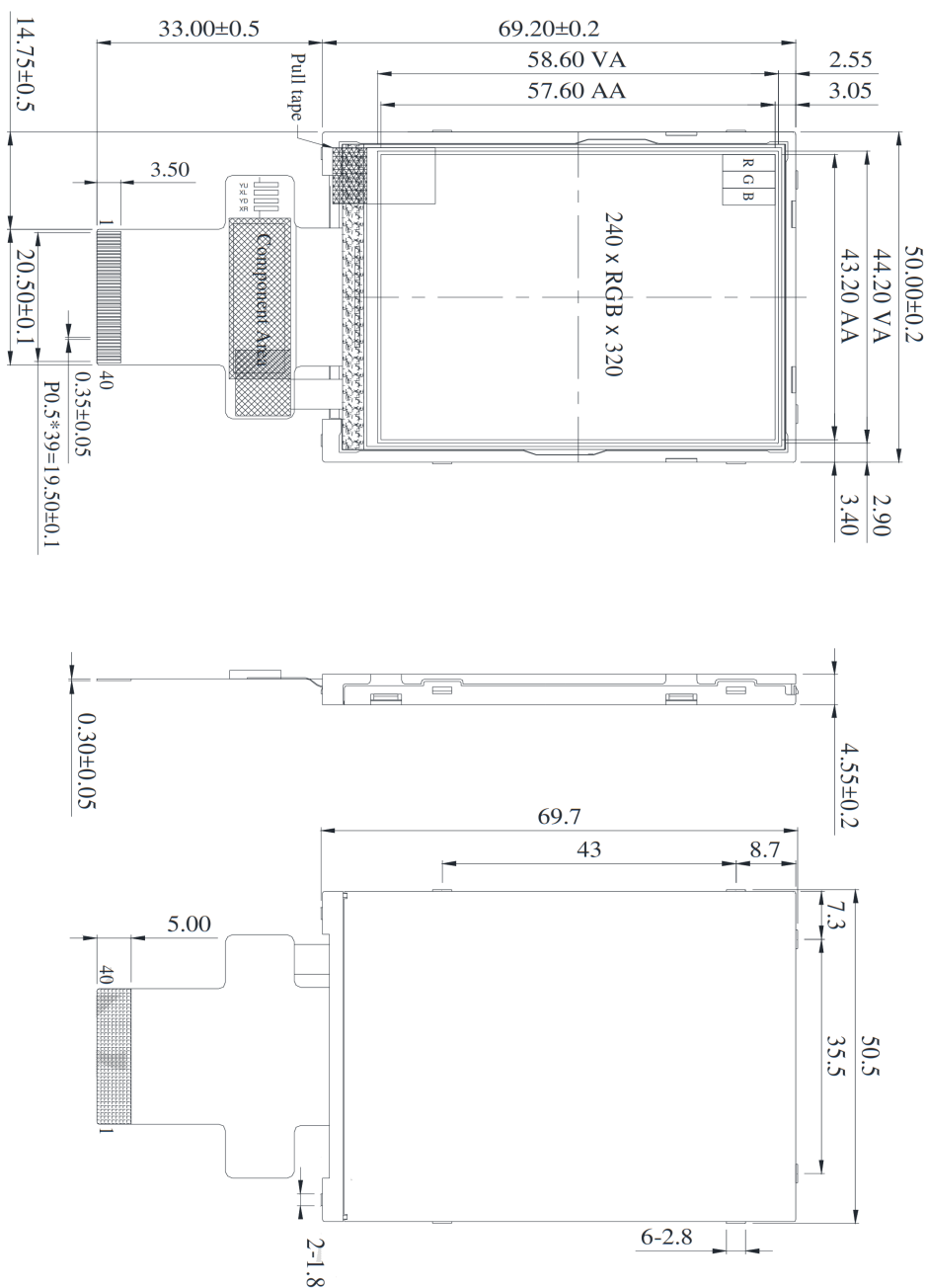
Electrical Characteristics

Operating conditions:

Item	Symbol	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

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



PIN NO.	SYMBOL
1	GND
2	NC(YU)
3	NC(XL)
4	NC(YD)
5	NC(XR)
6	NC
7	VCI
8	10VCC
9	TE
10	CS
11	D/CX(SCL)
12	WR(SPL_D/C)
13	RD
14-29	DB0~DB15
30	RESET
31	IM0
32	IM1
33	IM2
34	DB16
35	DB17
36	LEDK
37	LEDK
38	LEDA
39	SDI(SDA)
40	SDO