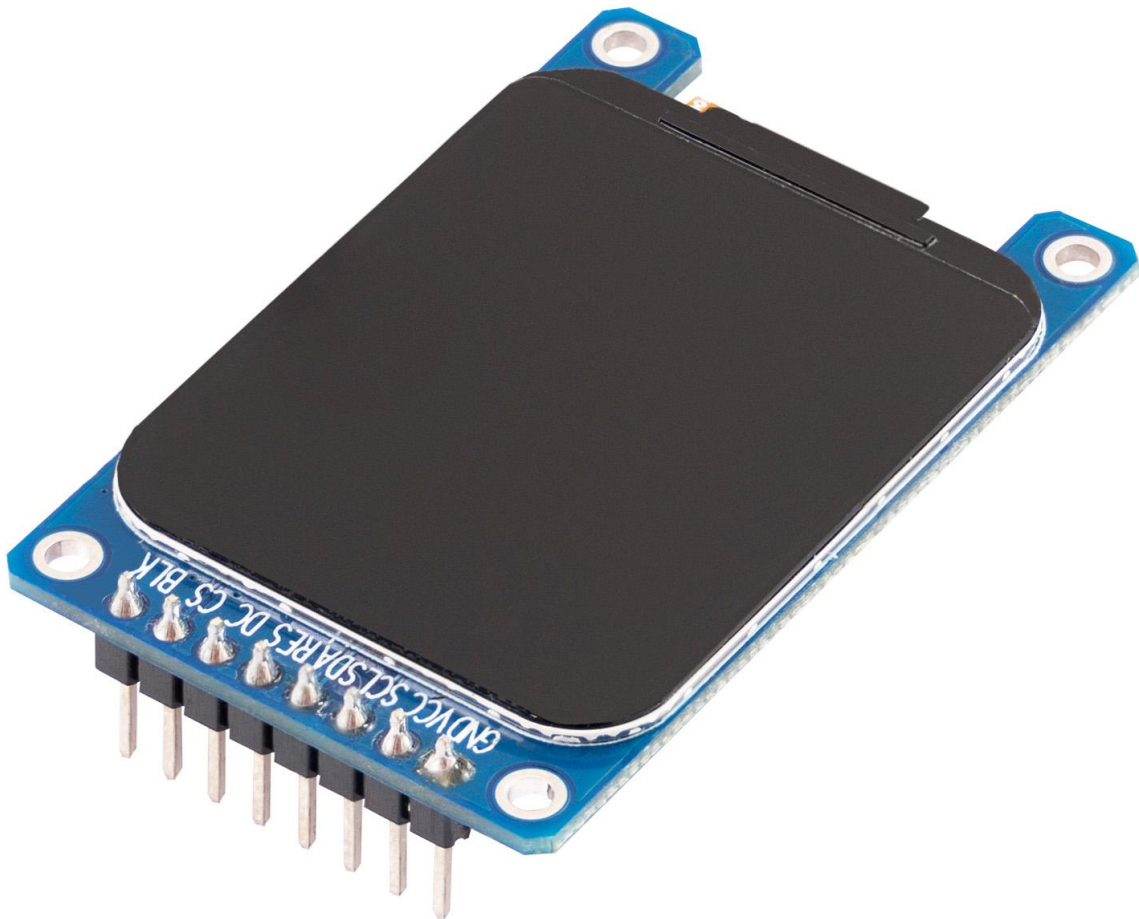


datasheet

# 1.69 inch TFT LCD Module

240 x 280 pixels



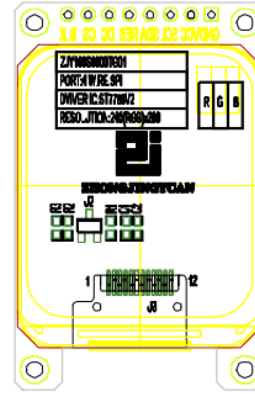
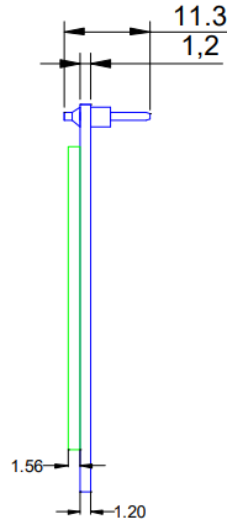
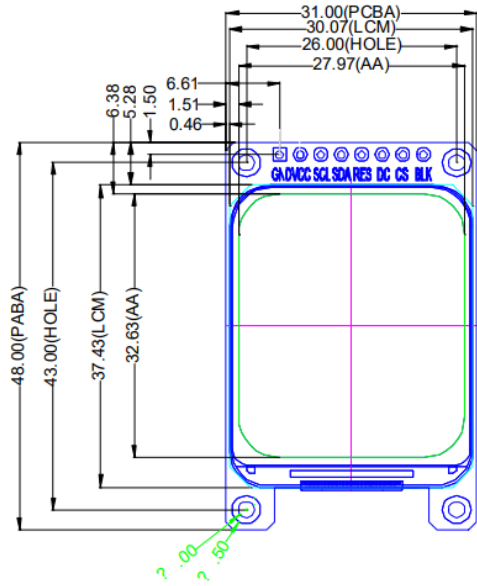
## Specifications

Operating Voltage	3.3V -5V
LCD size	1.69 inch
Resolution	240 x 280 pixels
Pixel pitch	0.11655 x 0.11655 mm
Active area	27.972 x 32.634 mm
Display colors	262K
Interface	4 line SPI
Driver	ST7789V2
Dimensions	48 x 31.2 x 11,3 mm
Weight	8g

## Pin Definition

<b>Nr.</b>	<b>Pin</b>	<b>Definition</b>
1	GND	Ground
2	VCC	Power supply input
3	SCL	Serial interface clock
4	SDA	SPI data input
5	RES	Reset, active low
6	DC	Data/Command selection
7	CS	Chip selection pin, low enable, high disable
8	BLK	Backlight control switch, on by default, pull low to turn of

Item	Date	Remark
A	2019-02-25	Original Drawing

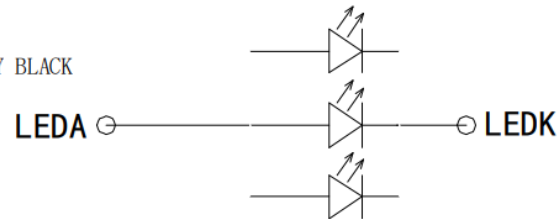


Pin Descriptions	
Pin	Symbol
1	GND
2	VCC
3	SCL
4	SDA
5	RES
6	DC
7	CS
8	BLK

**NOTES:**

1. DISPLAY TYPE: 1.69" TFT
2. VIEWING DIRECTION: A11
3. POLARIZER MODE: TRANSMISSIVE/NORMALLY BLACK
4. DRIVER IC: ST7789V2
5. Resolution: 240 (H) RGB x 280 (V)
6. INTERFACE: 4SPI
7. OPERATING TEMP: -20° C~70° C
8. STORAGE TEMP: -30° C~80° C
9. BACKLIGHT: 3 CHIP-WHITE LED
10. GENERAL TOLERANCE: ±0.20
11. ROHS

backlight circuit diagram



CIRCUIT DIAGRAM  
(I=60MA V=2.9-3.3V)

Customer Approval	Zhengzhou Zhongyuan Technology Co., Ltd				Drawing Number	Rev.
Signature	Unit of Approval	Special	Title	ZY16090-800 T001 TFT LCD Display Module	ZY-16090-800	A
	Unit	mm		Pixel Number: 240x280, Area Color (2), COG Package	Material	
	Tolerance	±0.2			Solder Line / Polyimide	
	Dimension	7-3	By	Drawn	E.E.	Panel / E.
	Angle	°	Date	2019-02-25	HBK	P.M.
					Scale	Sheet
					1:1	1 of 1
						A4