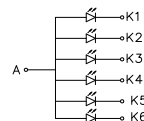


### Features:

1. LCD Type: 3.5" IPS TFT.
2. Resolution: 320\*480
3. Display Color: 262K
4. Driver IC: ILI9488
5. Viewing Angle: ALL.
6. Interface Types: MCU16-bit/SPI .
7. Backlight Tyoes: 6 LEDs.  
Voltage: 3V Electricity: 120mA (20mA/ea).
8. Operating temperature: -20 C° ~70 C° .
9. Storage Temperature: -30 C° ~80 C° .
10. Storage Humidity: 10RH ~ 40RH .

MODE = 0, MCU16-bit, DB0~DB15  
MODE = 1, 4Line spi

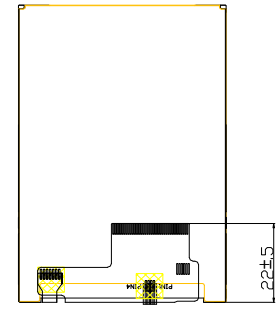
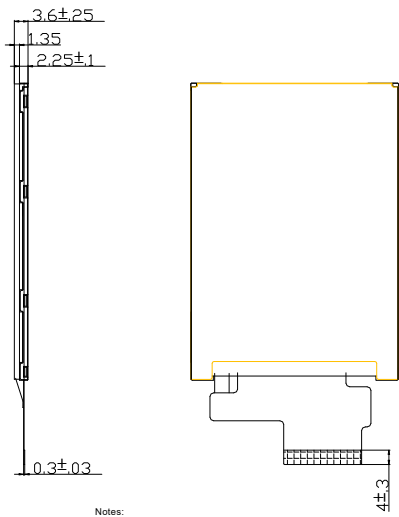
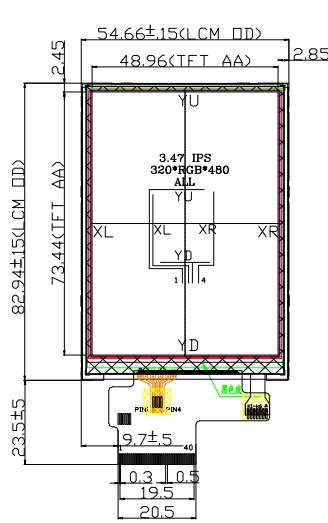


PIN	DESCRIPTION
1	GND
2	GND/(<S>DA)
3	MODE
4	FMARK
5	NC
6	NC
7	RESET
8	RS/(<D/>C)
9	CS
10	RD
11	WR/(<S>CL)
12	VCC
13	NC/(<S>DD)
14	GND
15	DB15/(<GND>)
16	DB14/(<GND>)
17	DB13/(<GND>)
18	DB12/(<GND>)
19	DB11/(<GND>)
20	DB10/(<GND>)
21	DB9/(<GND>)
22	DB8/(<GND>)
23	DB7/(<GND>)
24	DB6/(<GND>)
25	DB0/(<GND>)
26	DB1/(<GND>)
27	DB2/(<GND>)
28	DB3/(<GND>)
29	DB4/(<GND>)
30	DB5/(<GND>)
31	NC
32	NC
33	LEDA
34	LEDK1
35	LEDK2
36	LEDK3
37	LEDK4
38	LEDK5
39	LEDK6
40	GND

Limits Unless Otherwise Noted				设计	签名	日期	材料		
Tolerance Grade				绘图			单位	mm	
Grade	○			审核			比例	1:1	
0 - 150	±0.10	±0.15	±0.20	批准			日期	20201026	
150+	±0.20	±0.25	±0.30	客户确认			投影法		
Angle	±0.50°	±0.80°					版本	1.0	

4D SYSTEMS PTY LTD

客户图号  
工程图号 4DLCD-35320480-IPS



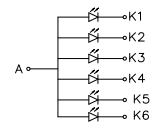
**Features:**

1. LCD Type:3.5"IPS TFT.
2. Resolution: 320\*480
3. Display Colr: 262K
4. Driver IC: ILI9488
5. Viewing Angle: ALL.
6. Interface Types:MCU16-bit/SPI .
7. Backlight Tyoes: 6 LEDs.  
Voltage: 3V Electricity: 120mA (20mA/ea).
8. Operating temperature: -20 C° ~70 C° .
9. Storage Temperature: -30 C° ~80 C° .
10. Storage Humidity:10RH ~ 40RH .

Notes:  
 1. Type:Film to Glass  
 2. Operating Voltage:≤10V  
 3. operation Temperature:-10℃~60℃  
 Storage Temperature:-20℃~70℃  
 4. Life Time: ≥1,000,000 times  
 5. Connect Material:FPC  
 6. Response Time ≤10ms  
 7. Linearity ≤1.5%  
 8. Transmittance: ≥78%  
 9. Surface Hardness ≥3H (Pencil)  
 10 operation force:80g ~ 120g  
 11.Resistance:  
 (Clear hard ITOFilm)x260A~500A  
 (Stand ard ITOGlass):500 O ~900 O  
 12.Unspecified Tolerance ±0.20

ND	SYMBOL
1	YU
2	XL
3	YD
4	XR

MODE =0, MCU16-bit,DB0~DB15  
 MODE =1, 4Line spi

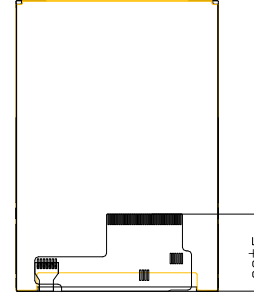
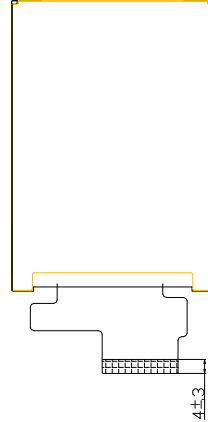
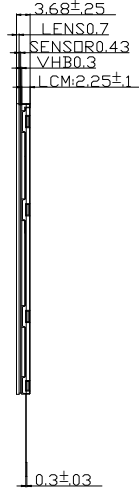
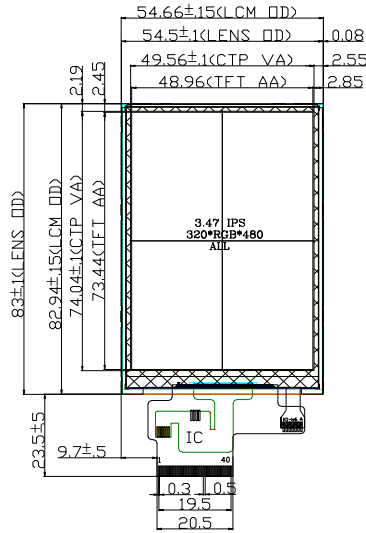


PIN	DESCRIPTION
1	GND
2	GND/⟨SDA⟩
3	MODE
4	FMARK
5	YD
6	XL
7	RESET
8	RS/⟨D/C⟩
9	CS
10	RD
11	WR/⟨SCL⟩
12	VCC
13	NC/⟨SDD⟩
14	GND
15	DB15/⟨GND⟩
16	DB14/⟨GND⟩
17	DB13/⟨GND⟩
18	DB12/⟨GND⟩
19	DB11/⟨GND⟩
20	DB10/⟨GND⟩
21	DB9/⟨GND⟩
22	DB8/⟨GND⟩
23	DB7/⟨GND⟩
24	DB6/⟨GND⟩
25	DB0/⟨GND⟩
26	DB1/⟨GND⟩
27	DB2/⟨GND⟩
28	DB3/⟨GND⟩
29	DB4/⟨GND⟩
30	DB5/⟨GND⟩
31	YU
32	XR
33	LEDA
34	LEDK1
35	LEDK2
36	LEDK3
37	LEDK4
38	LEDK5
39	LEDK6
40	GND

Limits Unless Otherwise Noted				设计	签名	日期	材料	
Tolerance Grade				绘图			单位	mm
Grade	○			审核			比例	1:1
0 - 150	±0.10	±0.15	±0.20	批准			日期	20201026
150+	±0.20	±0.25	±0.30	客户确认			投影法	⊕
Angle	±0.50°	±0.80°					版本	1.0

4D SYSTEMS PTY LTD

客户图号	
工程图号	4DLCD-35320480-IPS-RTP



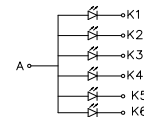
## Features:

1. LCD Type: 3.5" IPS TFT.
2. Resolution: 320\*480
3. Display Color: 262K
4. Driver IC: ILI9488
5. Viewing Angle: ALL.
6. Interface Types: MCU16-bit/SPI .
7. Backlight Types: 6 LEDs.  
Voltage: 3V Electricity: 120mA (20mA/ea).
8. Operating temperature: -20 °C ~ 70 °C .
9. Storage Temperature: -30 °C ~ 80 °C .
10. Storage Humidity: 10RH ~ 40RH .

### 技术要求:

1. 结构类型: G+F.
2. IC: FT5446/FT5436
3. CNC钢化玻璃边缘需倒角, 无毛刺, 无崩边, 表面硬度6H;  
64g钢球50cm跌落中间三次不破, 表面硬度>6H;
4. 翘曲度小于0.2, 透过率: 85% MIN;
5. 黑色丝印无积油、无透光;
6. ITO边缘无明显残留胶水;
7. FPC采用无胶电解铜, 无明显翘曲、变形, 补强板边缘无毛刺;
8. 工作温度范围:-20°~+60°, 10% 90%RH  
存储温度范围: 22°C ±3°C, 40% 65%RH;
- ESD要求: 接触±6K, 空气±10K
9. 符合RoHS标准;
10. 未注公差: ±0.2mm, \*\*为默认尺寸.

MODE=0, MCU16-bit, DB0~DB15  
MODE=1, 4Line spi

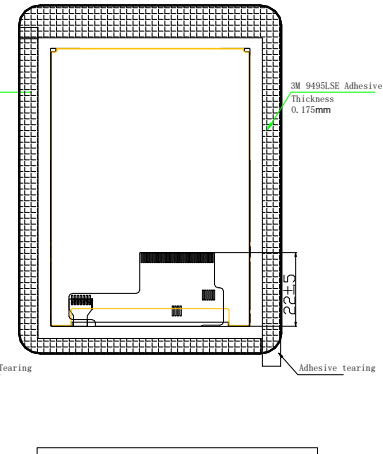
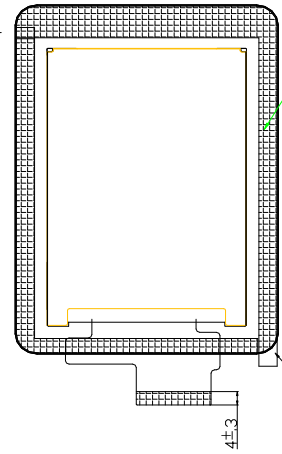
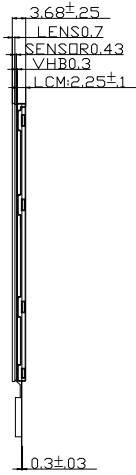
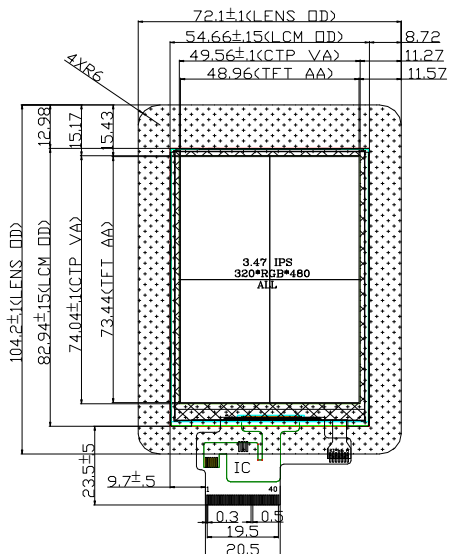


PIN	DESCRIPTION
1	GND
2	GND/(SDA)
3	MODE
4	FMARK
5	CTP-INT
6	CTP-SCL
7	RESET
8	RS/(D/C)
9	CS
10	RD
11	WR/(SCL)
12	VCC
13	NC/(SDD)
14	GND
15	DB15/(GND)
16	DB14/(GND)
17	DB13/(GND)
18	DB12/(GND)
19	DB11/(GND)
20	DB10/(GND)
21	DB9/(GND)
22	DB8/(GND)
23	DB7/(GND)
24	DB6/(GND)
25	DB0/(GND)
26	DB1/(GND)
27	DB2/(GND)
28	DB3/(GND)
29	DB4/(GND)
30	DB5/(GND)
31	CTP-RST
32	CTP-SDA
33	LEDA
34	LEDK1
35	LEDK2
36	LEDK3
37	LEDK4
38	LEDK5
39	LEDK6
40	GND

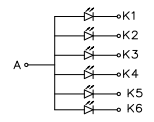
Limits Unless Otherwise Noted				签名	日期	材料	
Tolerance Grade				设计		单位	mm
Grade	Ø			绘图		比例	1:1
0 - 150	±0.10	±0.15	±0.20	审核		日期	20201026
150+	±0.20	±0.25	±0.30	批准		投影法	☉
Angle	±0.50°	±0.80°		客户确认		版本	1.0

4D SYSTEMS PTY LTD

客户图号  
工程图号 4DLCD-35320480-IPS-CTP  
投影法



MODE=0, MCU16-bit, DB0~DB15  
MODE=1, 4Line spi



PIN	DESCRIPTION
1	GND
2	GND/(SDA)
3	MODE
4	FMARK
5	CTP-INT
6	CTP-SCL
7	RESET
8	RS/(D/C)
9	CS
10	RD
11	WR/(SCL)
12	VCC
13	NC/(SDD)
14	GND
15	DB15/(GND)
16	DB14/(GND)
17	DB13/(GND)
18	DB12/(GND)
19	DB11/(GND)
20	DB10/(GND)
21	DB9/(GND)
22	DB8/(GND)
23	DB7/(GND)
24	DB6/(GND)
25	DB0/(GND)
26	DB1/(GND)
27	DB2/(GND)
28	DB3/(GND)
29	DB4/(GND)
30	DB5/(GND)
31	CTP-RST
32	CTP-SDA
33	LEDA
34	LEDK1
35	LEDK2
36	LEDK3
37	LEDK4
38	LEDK5
39	LEDK6
40	GND

### Features:

1. LCD Type: 3.5" IPS TFT.
2. Resolution: 320\*480
3. Display Color: 262K
4. Driver IC: IL19488
5. Viewing Angle: ALL.
6. Interface Types: MCU16-bit/SPI .
7. Backlight Tyoes: 6 LEDs.  
Voltage: 3V Electricity: 120mA (20mA/ea).
8. Operating temperature: -20 C° ~ 70 C° .
9. Storage Temperature: -30 C° ~ 80 C° .
10. Storage Humidity: 10RH ~ 40RH .

- 技术要求:
1. 结构类型: G+F+F.
  2. IC: FT5446/FT5436
  3. CNC钢化玻璃边缘需倒角, 无毛刺, 无崩边, 表面硬度>6H; 6g钢化50um玻璃中间三次不碰, 表面硬度>6H;
  4. 翘曲度小于0.2, 透过率: 85% MIN;
  5. 黑色丝印无积油、无透光;
  6. ITO边缘无明显残留胶;
  7. FPC采用无胶电解铜, 无明显翘曲、变形, 补强板边缘无毛刺;
  8. 工作温湿度范围: -20° ~ +60°, 10%~90%RH  
存储温湿度范围: 22°C ± 3°C, 40%~65%RH;  
ESD要求: 接触±6K, 空气±10K
  9. 符合ROHS标准;
  10. 未注公差: ±0.2mm, \*为塑胶尺寸.

Limits Unless Otherwise Noted				签名	日期	材料	
Tolerance Grade				设计		单位	mm
Grade	⊙			绘图			
0 - 150	±0.10	±0.15	±0.20	审核		比例	1:1
150+	±0.20	±0.25	±0.30	批准		日期	20201026
Angle	±0.50°	±0.80°		客户确认			

**4D SYSTEMS PTY LTD**

客户图号	
工程图号	4DLCD-35320480-IPS-CTP-CLB
投影法	
版本	1.0