

Technical drawing of a 3.95" TFT LCD module (HZ0395VGPBWC01G-AA) showing dimensions, pin configuration, and specifications.

ROSH

Reversion

Discription

Date

Signed

V0

First issue

2025.09.18

Penglz

Pin Configuration Table:

PIN	DESCRIPTION
1	LEDK
2	LEDA
3	GND
4	MIPI-DON
5	MIPI-DOP
6	GND
7	MIPI-CLKN
8	MIPI-CLKP
9	GND
10	MIPI-DIN
11	MIPI-DIP
12	GND
13	VSYNC
14	HSYNC
15	DCLK
16	DE
17	B0
18	B1
19	B2
20	B3
21	B4
22	B5
23	B6
24	B7
25	G0
26	G1
27	G2
28	G3
29	G4
30	G5
31	G6
32	G7
33	R0
34	R1
35	R2
36	R3
37	R4
38	R5
39	R6
40	R7
41	LCD_RESX
42	LCD_CSX
43	LCD_SCLK
44	LCD_SDOIO
45	TP_RESET
46	TP_INT
47	TP_SDA
48	TP_SCL
49	IOVCC
50	VDD

Notes:

- DISPLAY TYPE: 3.95" TFT, TRANSMISSIVE Normally Black
- DRIVER IC: ST7102 or compatible
- VIEWING DIRECTION: All
- BACKLIGHT: 8 pcs White LED
- BRIGHTNESS: 300cd/m² (typ)
- INPUT VOLTAGE: VCC 2.8V (typ)
- OPERATING TEMP: -20° C ~ +70° C
- STORAGE TEMP: -30° C ~ +80° C
- UNDEFINED DIMENSION TOLERANCE: ±0.2mm
- RoHS COMPLIABLE
- 建议机壳开窗可视区比LCD A. A区单边大 0.3mm

Material: 旭硝子 0.7 & ≥7H (750g)

VA区透光率: ≥87%

工作/存储温度: 工作温度: -20° ~ +60° ; 存储温度: -30° ~ +70°

钢球冲击能量: 40g钢球, 40cm 高度V.A. 中心点3次, 无破损;

强化条件: 强化深度DOL ≥ 8um, 表面应力CS ≥ 450Mpa,

达因值: CG背面达因能 ≥ 32dyn, Film表面 ≥ 30dyn;

未注公差按 ±0.1mm 管控

油墨使用哑黑油墨

IF=40mA VF=12V (TYP)

MIPI or 3-SPI+RGB

深圳市华之洋光电科技有限公司

SHENZHEN HZY PHOTOELECTRIC TECHNOLOGY CO., LTD

Customer Ref.

Model No.

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21	B4
22	B5
23	B6
24	B7
25	G0
26	G1
27	G2
28	G3
29	G4
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ROSH

3.95" TFT
480(RGB)*480 Dots
View Direction
ALL

2.96±0.2
CG 0.70±0.05
OCA 0.175
LCM 2.08±0.15

4.67 74.66 4.67 4.52 76.54 2.94

5.77 5.62 5.77

29.25±0.5

70.00±0.5

3.00±0.3

50 1

0.30 0.50

P 0.5X49=24.50

25.50±0.1

0.30±0.03

元件区 MAX 1.20

铜片 0.20

5.00±0.3

1 50

0.30±0.03

IF=40mA VF=12V (TYP)

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29	G4
30	G5
31	G6
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MIPI or 3-SPI+RGB

NOTES:

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2. DRIVER IC:ST7102 or compatible

3. VIEWING DIRECTION: All

4. BACKLIGHT: 8 pcs White LED

5. BRIGHTNESS: 300cd/m² (typ)

6. INPUT VOLTAGE: VCC 2.8V (typ)

7. OPERATING TEMP: -20° C~ +70° C

8. STORAGE TEMP: -30° C~ +80° C

9. UNDEFINED DIMENSION TOLERANCE: ±0.2mm

10. RoHS COMPLIABLY

11. 建议机壳开窗可视区比LCD A. A区单边大 0.3mm

1. 材质: 旭硝子 0.7 & ≥7H (750g)

2. VA区透光率: ≥87%

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4. 钢球冲击能量: 40g钢球, 40cm 高度V. A. 中心点3次, 无破损;

5. 强化条件: 强化深度DOL≥8um, 表面应力CS≥450Mpa,

6. 达因值: CG背面达因能≥32dyn, Film表面≥30dyn;

7. 未注公差按±0.1mm管控

8. 油墨使用哑黑油墨

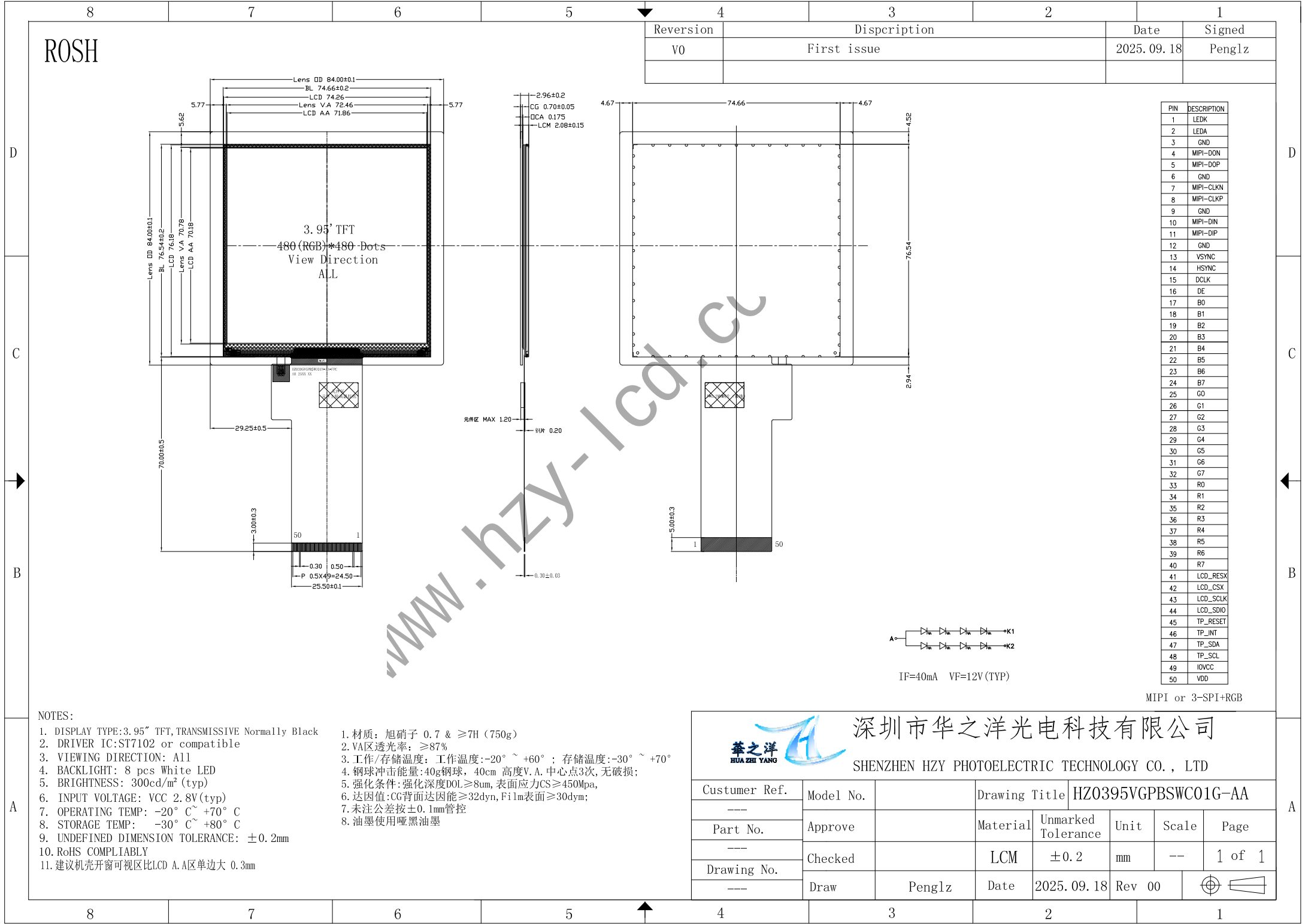
Customer Ref. Model No. Drawing Title HZ0395VGPBWC01G-AA

Part No. Approve Material Unmarked Tolerance Unit Scale Page

Drawing No. Checked LCM ±0.2 mm -- 1 of 1

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2. DRIVER IC:ST7102 or compatible

3. VIEWING DIRECTION: All

4. BACKLIGHT: 8 pcs White LED

5. BRIGHTNESS: 300cd/m² (typ)

6. INPUT VOLTAGE: VCC 2.8V (typ)

7. OPERATING TEMP: -20° C~ +70° C

8. STORAGE TEMP: -30° C~ +80° C

9. UNDEFINED DIMENSION TOLERANCE: ±0.2mm

10. RoHS COMPLIABLY

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6. 达因值: CG背面达因能≥32dyn, Film表面≥30dyn;

7. 未注公差按±0.1mm管控

8. 油墨使用哑黑油墨

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3. VIEWING DIRECTION: All

4. BACKLIGHT: 8 pcs White LED

5. BRIGHTNESS: 300cd/m² (typ)

6. INPUT VOLTAGE: VCC 2.8V (typ)

7. OPERATING TEMP: -20° C~ +70° C

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7. 未注公差按±0.1mm管控

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