



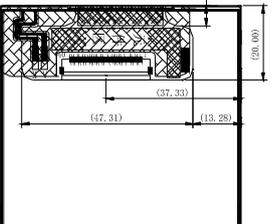
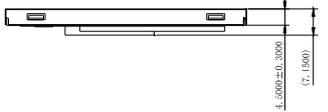
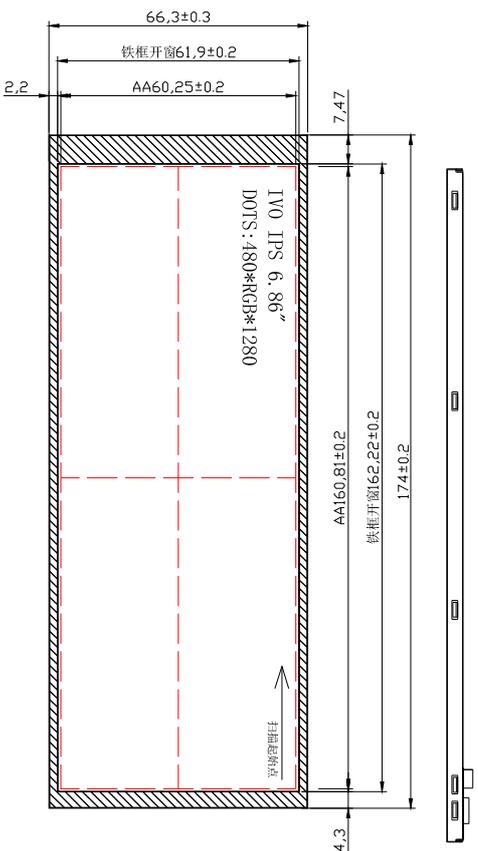
深圳市勋瑞光电科技有限公司

Xunrui Shenzhen Optoelectronics Technology Co., Ltd.

产品承认书
SPECIFICATION FOR APPROVAL

CUSTOMER	
MODEL NO.	
WEITAI	
MODEL NO.	H069KHD40I7003
	LCD MODULE,6.86" IPS 480*(RGB)1280

WEITAI			CUSTOMER
PREPARED	CHECKED	APPROVED	APPROVED



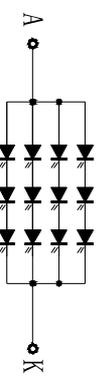
Pin	DESCRIPTION	REV:
1	GND	V00
2	DDP	
3	DDN	
4	GND	
5	DIP	
6	DDN	
7	GND	
8	CLAP	
9	CLAN	
10	GND	
11	D2P	
12	D2N	
13	GND	
14	D3P	
15	D3N	
16	GND	
17	GND	
18	IOVCC	Δ
19	IOVCC	Δ
20	NC	
21	SDA-NC	
22	SCL-NC	
23	NC	
24	HSFB	
25	STWB	
26	NC	
27	GND	
28	K	
29	K	
30	GND	
31	NC	
32	GND	
33	GND	
34	NC	
35	A	
36	A	
37	GND	
38	VDD-2V3	
39	VDD-2V3	
40	NC	

1. Rols must be complied.

- Modification rev. number
- Draft angle 1.0°
- " * " ICON MEAN IMPORTANT DIM.
- All radii without dimension R0.3, Unspecified Tolerances is: ±0.3
- Driver IC: FL7705N

Electrical-Optical Characteristics (Ta=25°C):					
Item	Symbol	min.	typ.	max.	Unit
Luminance	Lv	—	—	—	cd/m²
Uniformity	Avg	80	85	—	%
Colour	X	0.26	0.30	0.38	—
	Y	0.26	0.33	0.38	
Coordinate	X	9.0	10.8	11.8	V
	Y	9.0	10.8	11.8	

7. Circuit Diagram: 3V4=12



REV	DESCRIPTION	DATE
1	Spin和Spin由NC改为接IOVCC	2018.04.13
Δ	1.8V, 上电时序图之更改	2018.03.06

Viewing Angle (CR>10)		Operating Temperature: -20~+85° C		Storage Temperature: -30~+85° C	
Horizontal	Vertical	min.	typ.	max.	Unit
Δx+	Δx+	80	85	—	degree
80	80	85	85	—	—
80	80	85	85	—	—

Viewing Angle (CR>10)		Operating Temperature: -20~+85° C		Storage Temperature: -30~+85° C	
Horizontal	Vertical	min.	typ.	max.	Unit
Δx+	Δx+	80	85	—	degree
80	80	85	85	—	—
80	80	85	85	—	—

Viewing Angle (CR>10)		Operating Temperature: -20~+85° C		Storage Temperature: -30~+85° C	
Horizontal	Vertical	min.	typ.	max.	Unit
Δx+	Δx+	80	85	—	degree
80	80	85	85	—	—
80	80	85	85	—	—

MODEL NO.:	REV:
HKC 6.86" IPS	V00
CUSTOMER'S NO.:	REV:
0	0
SHEET SCALE	THE THIRD ANGLE PROJECTION
1 of 1	UNIT: mm
DESIGN:	
CHECKED:	
COUNTERSIGN:	
APPROVED:	

五、PIN 定义

Pin No.	Symbol	Functional	Notes
1	GND	Ground	
2	NOP	MIPI data input	
3	D0N	MIPI data input	
4	GND	Ground	
5	D1P	MIPI data input	
6	D1N	MIPI data input	
7	GND	Ground	
8	CLKP	MIPI data input	
9	CLKN	MIPI data input	
10	GND	Ground	
11	D2P	MIPI data input	
12	D2N	MIPI data input	
13	GND	Ground	
14	D3P	MIPI data input	
15	D3N	MIPI data input	
16	GND	Ground	
17	GND	Ground	
18, 19	IOVCC	Power supply(1.8V)	
20-23	NC	No connection	
24	RSTB	Global reset pin	
25	STBYB	Standby mode, Normally pulled high	
26	NC	No connection	
27	GND	Ground	
28-29	BL-K	Back light-K	
30	GND	Ground	
31	NC	No connection	
32-33	GND	Ground	
34	NC	No connection	
35-36	BL-A	Back light-A	
37	GND	Ground	
38-39	VDD	Power supply for digital circuits +3.3V input	
40	NC	No connection	

六、Porch 设定/上电时序

480RGBx1280 (4 Data Lanes)						
Parameter		Symbol	Min.	Typ.	Max.	Unit
MIPI data frequency		FDATA	300	320	350	Mbps
Clock frequency		FRAME		60		HZ
Hertical Section	Active	THD	480			us
	Period	TH	482.5	512	-	us
	HBP	THBP	1	12	-	us
	HFP	THFP	1	16	-	us
	HSYNC	THPW	0.2	4	-	us
Vorizontal Section	Active	TVD	1280			Line
	Period	TV	1286	1312	-	Line
	VBP	TVBP	2	12	-	Line
	VFP	TVFP	2	16	-	Line
	VSYNC	FTPW	2	4	-	Line

Table 7.1-1 Power On Sequence Timing

Symbol	Value			Unit	Remark
	Min.	Typ.	Max.		
TOn1	0			mS	
TOn2	0			mS	
TOn3	0			mS	
TOn4	0			mS	
T2		No limit		uS	
T3	0			mS	
T4	10			mS	
T5	20			mS	
T6	0		T4	mS	
T7	10			uS	
T8	120			mS	

7.1.2 Power ON- PCCS[1:0] =H,L Mode Sequence

Application Power: IOVCC, VCI

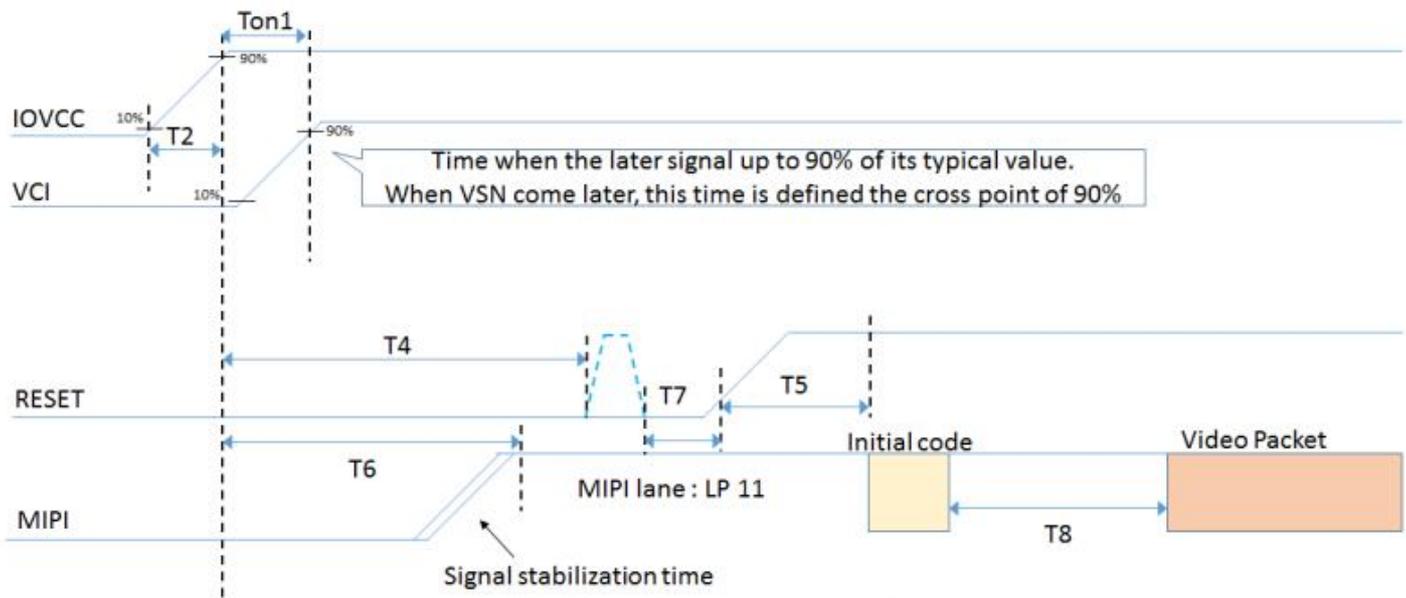


Figure 7.1.2-1: Power On-PCCS[1:0]= H,L mode sequence

Note1: Unless otherwise specified, timings herein show cross point at 50% of signal/power level.

Note2: This power-on sequence is based on adding schottky diode on VGL pin to ground.

七、驱动参数

Electrical Specifications

NO.	Item	Min	Typ	Max	Unit
1	Vcom voltage	-2.08	-1.58	-1.08	V
2	Frame Rate	55	60	65	Hz
3	VGH voltage	15.6	16	16.5	V
4	VGL voltage	-12.5	-12	-11.5	V
5	VDD	3.3	3.3	3.3	V