



優潔光科技
UJ Light Technologies

SPECIFICATIONS FOR LCD MODULE

Model No:

UTF050D-AFN\$

UJ Light Technologies Corporation

5F, No. 38, Keya Rd., Daya Dist., Central Taiwan Science Park, Taichung City, 42881, Taiwan.

Web Site: <https://www.ujlight.com/> TEL:+886-4-25658689 FAX:+886-4-25658698



1. General Specification

Item	Specification	Unit
LCD Type	a-Si TFT	
Screen Size(inch)	5.0"	
Display Resolution	800*RGB*480	pixels
Viewing Direction	ALL	O' Clock
Outline Dimension	120.7(W)*75.8(H)*3.0(D)	mm
Active Area(A.A)	108.0*(W)*64.8(H)	mm
Driver IC	ST7262	
Interface	RGB	
Backlight Type	18 LEDs	

2. Absolute Maximum Rating

Item	Symbol	Min.	Typ.	Max.	Unit
TFT gate on voltage	VGH	-	12	-	V
TFT gate off voltage	VGL	-	-12	-	V
Operating Temperature	TOP	-20	-	70	°C
Storage Temperature	TST	-30	-	80	°C

3. Electrical Characteristics

3.1 TFT LCD Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Analog Supply Voltage	VCI		3.3		V
Digital Supply Voltage	VDD		3.3		V
I/O Supply Voltage	IOVCC		1.8	3.3	V
Input Hight Voltage	VIH	0.8*IOVCC		IOVCC	V
Input Low Voltage	VIL	0		0.2*IOVCC	V
Output Hight Voltage	VOH	0.8*IOVCC			V
Output Low Voltage	VOL			0.2*IOVCC	V

3.2 BackLight Characeristics

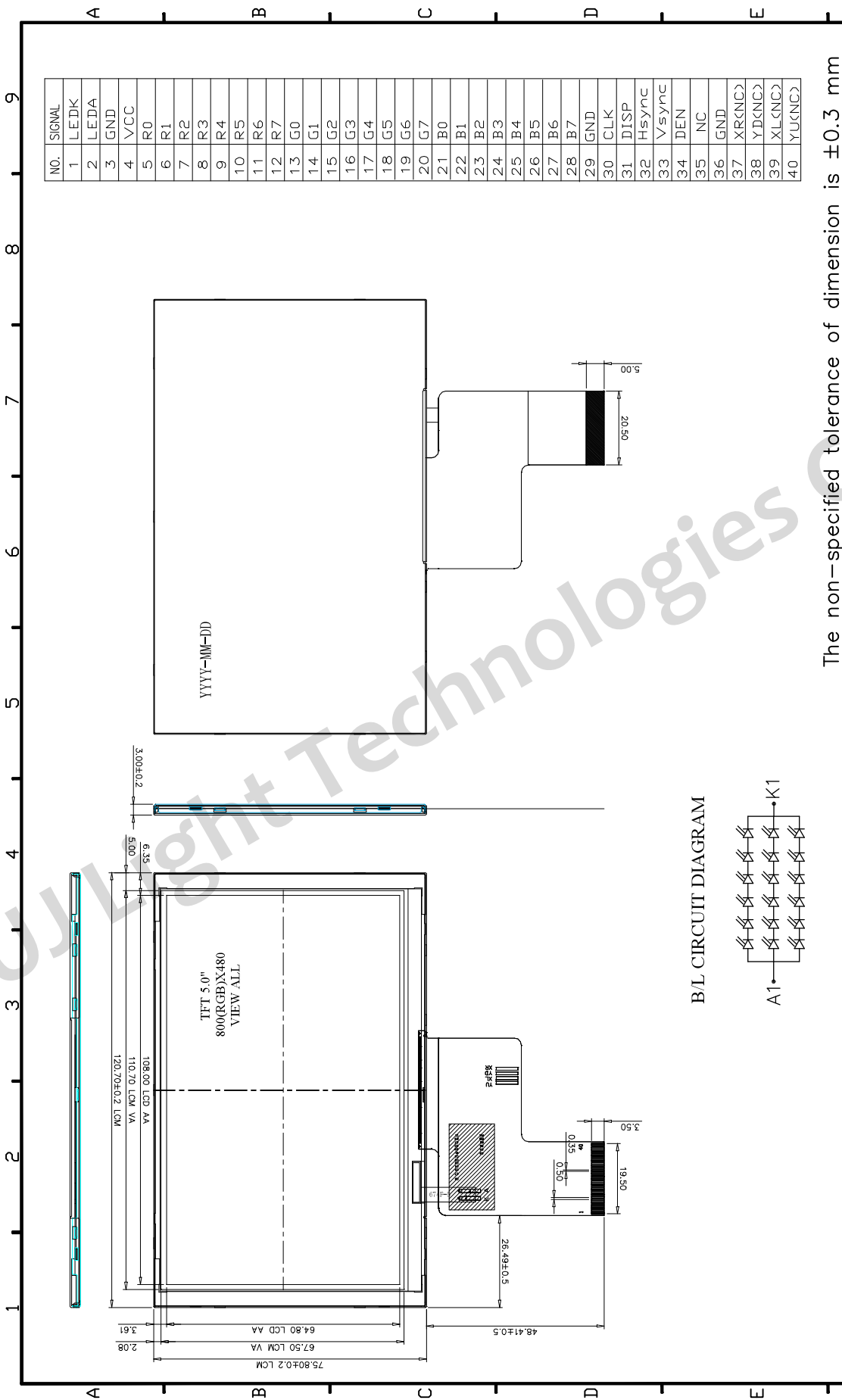
Item	Symbol	Min.	Typ.	Max.	Unit
LED Voltage	VF	16.8	18.0	19.2	V
LED Current	IF	-	60	-	mA
Brightness of LCM	L	-	500	-	cd/m2
Color	White				

4. Interface Pin Function

Pin No.	Symbol	Description
1	LEDK	LED BACKLIGHT(CATHODE)
2	LEDA	LED BACKLIGHT(ANODE)
3	GND	GROUND
4	VCC	POWER SUPPLY
5	R0	RED DATA
6	R1	RED DATA
7	R2	RED DATA
8	R3	RED DATA
9	R4	RED DATA
10	R5	RED DATA
11	R6	RED DATA
12	R7	RED DATA
13	G0	GREEN DATA
14	G1	GREEN DATA
15	G2	GREEN DATA
16	G3	GREEN DATA
17	G4	GREEN DATA
18	G5	GREEN DATA
19	G6	GREEN DATA
20	G7	GREEN DATA
21	B0	BLUE DATA
22	B1	BLUE DATA
23	B2	BLUE DATA
24	B3	BLUE DATA
25	B4	BLUE DATA
26	B5	BLUE DATA
27	B6	BLUE DATA
28	B7	BLUE DATA
29	GND	GROUND
30	CLK	CLOCK SIGNAL
31	DISP	DISPLAY ON/OFF
32	HSYNC	HORIZONTAL SYNC INPUT IN RGB MODE
33	VSYNC	VERTICAL SYNC INPUT IN RGB MODE
34	DEN	DATA ENABLE
35	NC	NC
36	GND	GROUND
37	XR(NC)	TOUCH PLANE PIN/NC
38	YD(NC)	TOUCH PLANE PIN/NC
39	XL(NC)	TOUCH PLANE PIN/NC
40	YU(NC)	TOUCH PLANE PIN/NC

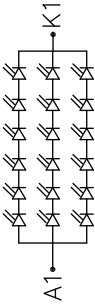


5. Drawing



The non-specified tolerance of dimension is ± 0.3 mm

B/L CIRCUIT DIAGRAM



TOLERANCE UNLESS OTHERWISE SPEC.		NO.	REV.	DESCRIPTION		LOCA	DRAW	DATE	UJ LIGHT		PART_NAME	PART_NO.	TITLE	NA
~ 8	0.05	0.1	0.1	0.2	0.2	0.4			APPROVAL / DATE	VERSION			MATERIAL	NA
8 ~ 25	0.08	0.15	0.15	0.3	0.3	0.6			CHECK / DATE				SURFACE	NA
25 ~ 80	0.12	0.2	0.25	0.4	0.5	0.8			DRAW / DATE				TOL. UNLESS NOTED.	NA
80 ~ 250	0.25	0.3	0.4	0.6	0.8	1.2							SCALE	1
250 ~	0.5	0.6	0.8	1.0	1.5	2.0							SHEET	1