



優潔光科技
UJ Light Technologies

SPECIFICATIONS FOR LCD MODULE

Model No:

UTF021A-KFN\$

UJ Light Technologies Corporation

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1. General Specification

Parameter	Value	Unit
LCD Mode	a-Si TFT/transmissive	-
Screen Size(inch)	2.1"	
Display Mode	Normally Black	-
Viewing Direction	85/85/85/85	-
Color	16.7M	-
Display Resolution	480*3(RGB)*480	pixels
Outline Dimension	56.18(W) *59.71(H) *2.26(T)	mm
Active Area(A.A)	53.28*(H) * 53.28(V)	mm
Pixel Arrangement	RGB-stripe	-
Driver IC	ST7701S	-
Surface Treatment	Hard coating	-
Interface	Mipi 2Lan	-

2. Absolute Maximum Rating

Item	Symbol	Min.	Max.	Unit
Digital Supply Voltage	VCI	-0.3	4.3	V
Operating Temperature	TOP	-20	70	°C
Storage Temperature	TST	-30	80	°C

3. Electrical Characteristics

3.1 TFT LCD Electrical Characteristics

Item	Symbol	Unit	Value		
			Min	Typ	Max
Power voltage	VCI	V	2.5	2.8	3.3

3.2 BackLight Characeristics

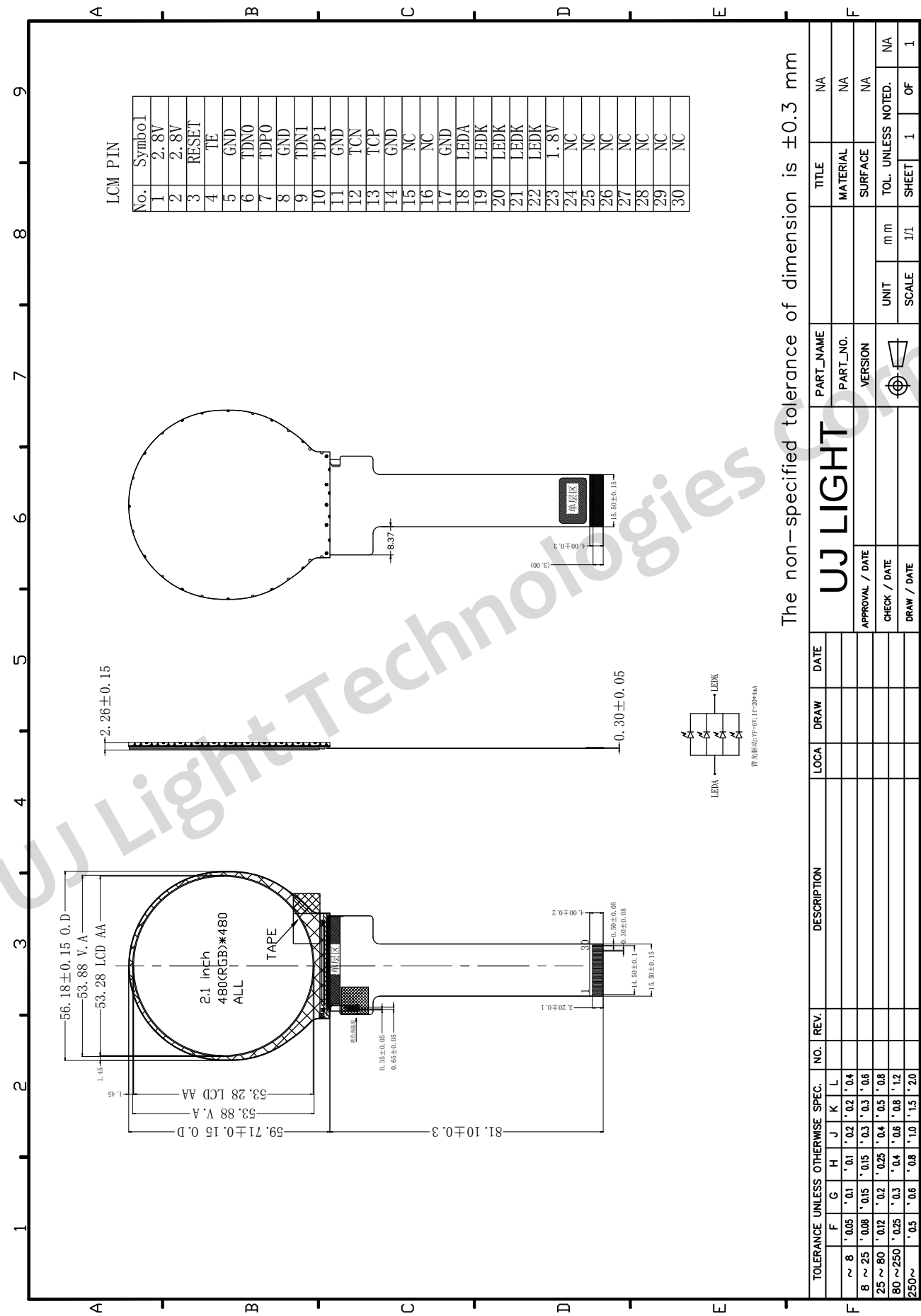
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	VF	Only Backlight	-	6.0	-	V
Supply Current	IF		-	80	-	mA
Average Brightness(BL+LCD)	IV	Backlight Current IF=80mA	900	1000	-	cd/m ²
Uniformity	B	Backlight Current IF=80mA	75	-	-	(%)
Color	White					

4. Interface Pin Function

Pin NO.	Symbol	Description
1	2.8V	Power Supply(2.8V).
2	2.8V	Power Supply(2.8V).
3	RESET	RESET PIN
4	TE	For IC Test.Leave the pin open when not in use
5	GND	Ground
6	TDN0	MIPI DSI differential data lane 0 negative input pin.
7	TDP0	MIPI DSI differential data lane 0 positive input pin.
8	GND	Ground
9	TDN1	MIPI DSI differential data lane 1 negative input pin.
10	TDP1	MIPI DSI differential data lane 1 positive input pin.
11	GND	Ground
12	TCN	MIPI DSI differential clock negative input pin.
13	TCP	MIPI DSI differential clock positive input pin.
14	GND	Ground
15	NC	No connect.
16	NC	No connect.
17	GND	Ground
18	LEDA	Backlight LED+
19	LEDK	Backlight LED-
20	LEDK	Backlight LED-
21	LEDK	Backlight LED-
22	LEDK	Backlight LED-
23	1.8V	Power Supply for I/O System.
24~30	NC	No connect.



5. Drawing



The non-specified tolerance of dimension is ± 0.3 mm

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