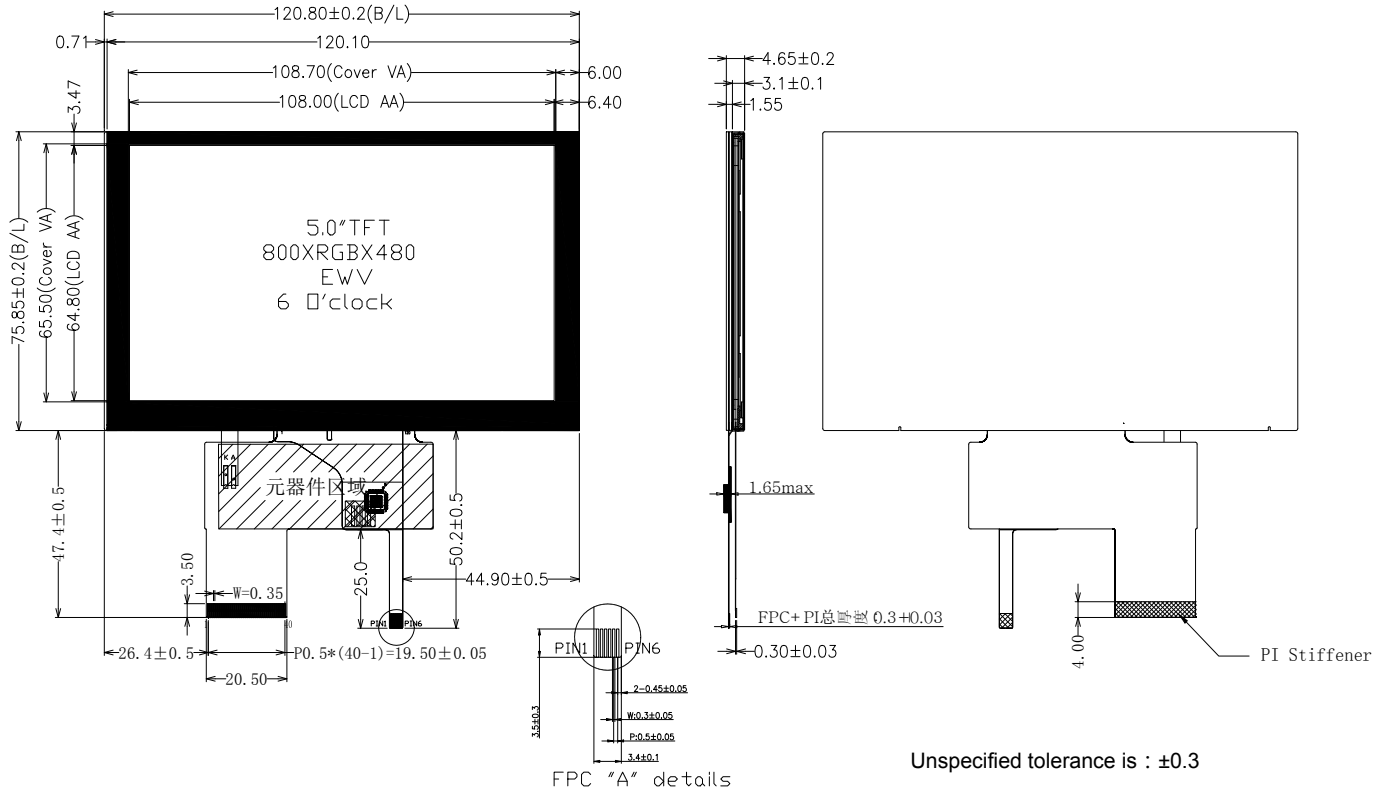


# HGF05006 with CTP



## Pin Connections

### TFT interface:

Pin	Symbol	I/O	Function	Pin	Symbol	I/O	Function
1	LEDK	0V	LED cathode	30	DCLK	H/L	Clock for input data
2	LEDA	18.6V	LED anode	31	DISP	H/L	Display on/off
3	V <sub>SS</sub>	0V	Power ground	32	HSYNC	H/L	Horizontal sync input
4	DVDD	3.3V	Power supply	33	VSYNC	H/L	Vertical sync input
5~12	R0~R7	H/L	Red data bus	34	DE	H/L	Data input enable
13~20	G0~G7	H/L	Green data bus	35	NC	-	Not connection
21~28	B0~B7	H/L	Blue data bus	36	V <sub>SS</sub>	0V	Power ground
29	V <sub>SS</sub>	0V	Power ground	37~40	NC	-	Not connection

### CTP interface:

Pin	Symbol	I/O	Function
1	VCC	2.8V~3.3V	Power supply
2	RESET	H/L	Reset signal
3	SCL	H/L	I <sup>2</sup> C clock terminal
4	SDA	H/L	I <sup>2</sup> C data terminal
5	INT	H/L	Interrupt signal
6	V <sub>SS</sub>	0V	Power ground

## Basic Specifications

Item	Specifications
Size	5 inch
Resolution	800×3(RGB)×480
Color depth	16M
Viewing direction	6 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Interface type	RGB interface
Touch panel	With CTP , CTP controlled by FT5216

## DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	DVDD	3.0	3.3	3.6	V
Input logic high voltage	V <sub>IH</sub>	0.7 DVDD	-	DVDD	V
Input logic low voltage	V <sub>IL</sub>	0	-	0.3 DVDD	V
Power supply for LED backlight	V <sub>F</sub>	-	18.6	-	V
Current for LED backlight	I <sub>F</sub>	-	40	-	mA
Operating life time for LED backlight	Ta=25°C and I <sub>F</sub> =40mA	-	20000	-	Hrs

## Optical Specifications

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
View angles	VERT	CR ≥ 10 (Note)	θ <sub>T</sub>	55	60	-	Degree
			θ <sub>B</sub>	45	50	-	
	HOR		θ <sub>L</sub>	60	65	-	
			θ <sub>R</sub>	60	65	-	
Contrast ratio	CR	θ=0°	400	500	-	-	
Chromaticity	White	Backlight is on	X	0.25	0.30	0.35	
			Y	0.25	0.30	0.35	
Luminance	L	Ta=25°C and I <sub>F</sub> =40mA	-	300		cd/m <sup>2</sup>	

Note: T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock