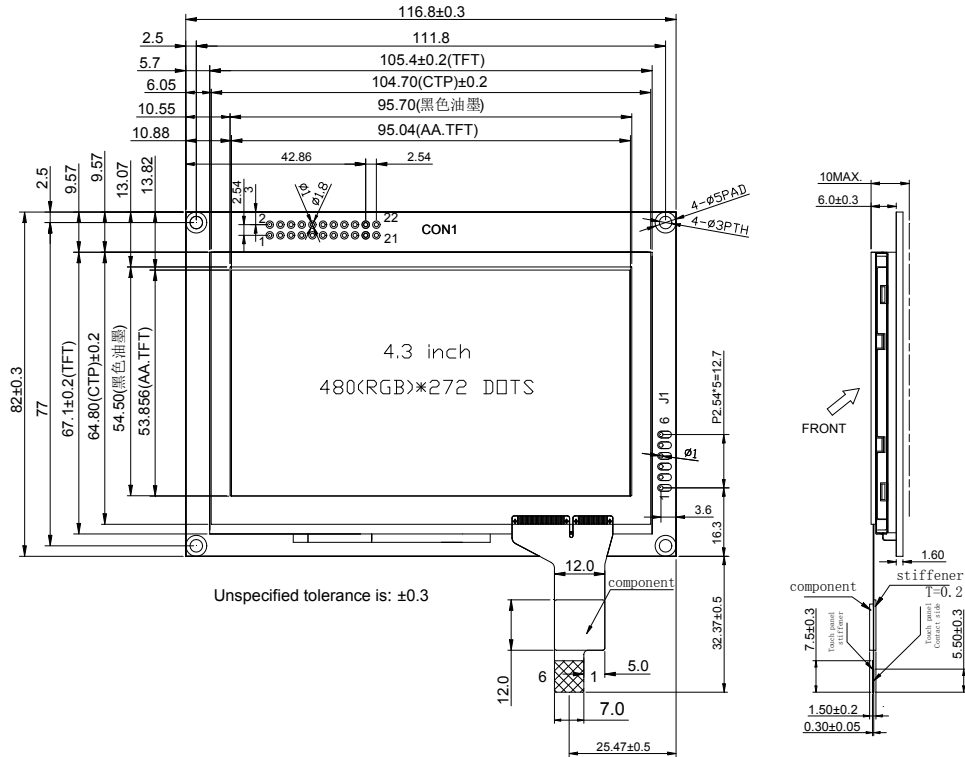


# HGF04333 with CTP



## Pin Connections CON1:

Pin	Symbol	I/O	Function	Note
1	V <sub>DD</sub>	P	Power supply for logic	5.0V or 3.3V power supply
2	V <sub>SS</sub>	P	Power ground	
3	NC	-	No connection	
4	RS	H/L	Data/Command select	
5	/WR	H/L	Write signal	
6	/RD	H/L	Read signal	
7~14	DB0-DB7	H/L	Data bus	
15	/CS	H/L	Chip select signal,active "L"	
16	/REST	H/L	Reset signal ,active "L"	
17	/WAIT	H/L	Wait signal	
18	/INT	H/L	Interrupt signal	
19	/SFCS	H/L	Chip select pin for external serial Flash/ROM	External Flash control interface (3.3V I/O control)
20	SFDO	H/L	External Flash/ROM serial data output	
21	SFDI	H/L	External Flash/ROM serial data input	
22	SFCLK	H/L	External Flash/ROM serial clock input	

## J1: External Flash control interface

Pin	Symbol	I/O	Function	Note
1	/SFCS	H/L	Chip select pin for external serial Flash/ROM	3.3V I/O control
2	SFDO	H/L	External Flash/ROM serial data output	
3	SFDI	H/L	External Flash/ROM serial data input	
4	SFCLK	H/L	External Flash/ROM serial clock input	
5	V <sub>DD</sub>	P	Power supply for logic	
6	V <sub>SS</sub>	P	Power ground	

**CTP control interface:**

Pin	Symbol	I/O	Function	Note
1	INT	H/L	Interrupt signal	CTP control terminal : 3.3V Power supply and 3.3V I/O control
2	V <sub>CC</sub>	+3.3V	Power supply	
3	V <sub>SS</sub>	0V	Power ground	
4	/RST	H/L	Reset signal	
5	I <sup>2</sup> C_SCL	H/L	I <sup>2</sup> C clock terminal	
6	I <sup>2</sup> C_SDA	H/L	I <sup>2</sup> C data terminal	

**Basic Specifications**

Item	Specifications
Size	4.3 inch
Resolution	480×3(RGB)×272
Color depth	65K
Viewing direction	6 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Driver IC	RA8875
Interface type	8 bits 80-serials parallel MPU interface
Touch panel	With CTP ,CTP controlled by GT911

**DC Electrical Characteristics&Backlight Driving Conditions**

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V <sub>DD</sub> (3.3V)	3.0	3.3	3.6	V
	V <sub>DD</sub> (5.0V)	4.5	5.0	5.5	
Supply current	I <sub>DD</sub>	-	-	-	mA
Input signal voltage	V <sub>IH</sub>	0.7 V <sub>DD</sub>	-	V <sub>DD</sub>	V
	V <sub>IL</sub>	0	-	0.3 V <sub>DD</sub>	V
Output signal voltage	V <sub>OH</sub>	0.8 V <sub>DD</sub>	-	V <sub>DD</sub>	V
	V <sub>OL</sub>	0	-	0.2 V <sub>DD</sub>	V
Power supply for LED backlight	V <sub>F</sub>	12	13.2	14	V
Current for LED backlight	I <sub>F</sub>	-	40	50	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	θT	CR ≥ 10	60	70	-	Degree
		θB		40	50	-	
	HOR	θL		60	70	-	
		θR		60	70	-	
Contrast ratio	CR	θ=0°	400	500	-	-	
Chromaticity	White	X	Backlight is on	0.25	0.30	0.35	
		Y		0.25	0.30	0.35	
Luminance	L	Ta=25°C and I <sub>F</sub> =40mA	-	180	-	cd/m <sup>2</sup>	

- Note: 1. Built-in RA8875 controller    2. Chinese fonts chip(GB2312) optional    3. 5.0V/3.3V power supply optional  
4. LED Backlight controlled by PWM    5. External serial Flash/ROM can control by CON1 or J1.  
6. T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock