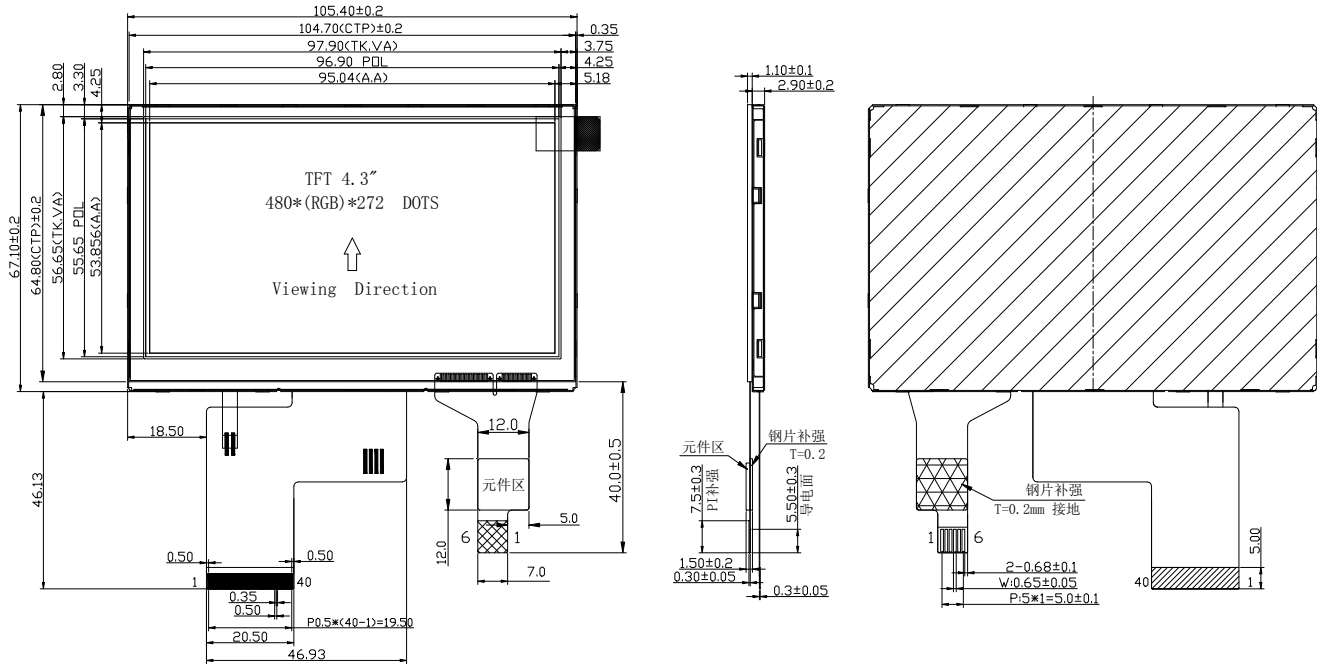


HGF04306 with CTP



Pin Connections

TFT interface:

Pin	Symbol	I/O	Function
1	VLED-	0V	Power for LED backlight cathode
2	VLED+	13.2V	Power for LED backlight anode
3	V _{SS}	0V	Power ground
4	V _{DD}	3.3V	Power supply voltage
5~12	R0~R7	H/L	Red data
13~20	G0~G7	H/L	Green data
21~28	B0~B7	H/L	Blue data
29	V _{SS}	0V	Power ground
30	DCLK	H/L	Pixel clock
31	DISP	H/L	Display on/ off
32	HSYNC	H/L	Horizontal sync signal
33	VSYNC	H/L	Vertical sync signal
34	DE	H/L	Data enable
35	NC	-	No connect
36	V _{SS}	0V	Power ground
37~40	NC	-	No connect

Touch panel 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 _{CC}	+3.3V	Power supply	
3	V _{SS}	0V	Power ground	
4	/RST	H/L	Reset signal	
5	I ² C_SCL	H/L	I ² C clock terminal	
6	I ² C_SDA	H/L	I ² C data terminal	

Basic Specifications

Item	Specifications
Size	4.3 inch
Resolution	480×3(RGB)×272
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 GT911

DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V _{DD}	3.0	3.3	3.6	V
Supply current	I _{DD}	-	-	-	mA
Input signal voltage	V _{IH}	0.8 V _{DD}	-	V _{DD}	V
	V _{IL}	0	-	0.2 V _{DD}	V
Output signal voltage	V _{OH}	0.8 V _{DD}	-	V _{DD}	V
	V _{OL}	0	-	0.2 V _{DD}	V
Power supply for LED backlight	V _F	-	13.2	-	V
Current for LED backlight	I _F	-	40	50	mA
Operating life time for LED backlight	Ta=25°C and I _F =40mA	-	20000	-	Hrs

Optical Specifications

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
View angles	VERT	θ _T	CR ≥ 10 (Note)	60	70	-	Degree
		θ _B		40	50	-	
	HOR	θ _L		60	70	-	
		θ _R		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 _F =40mA	-	160	-	cd/m ²	

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