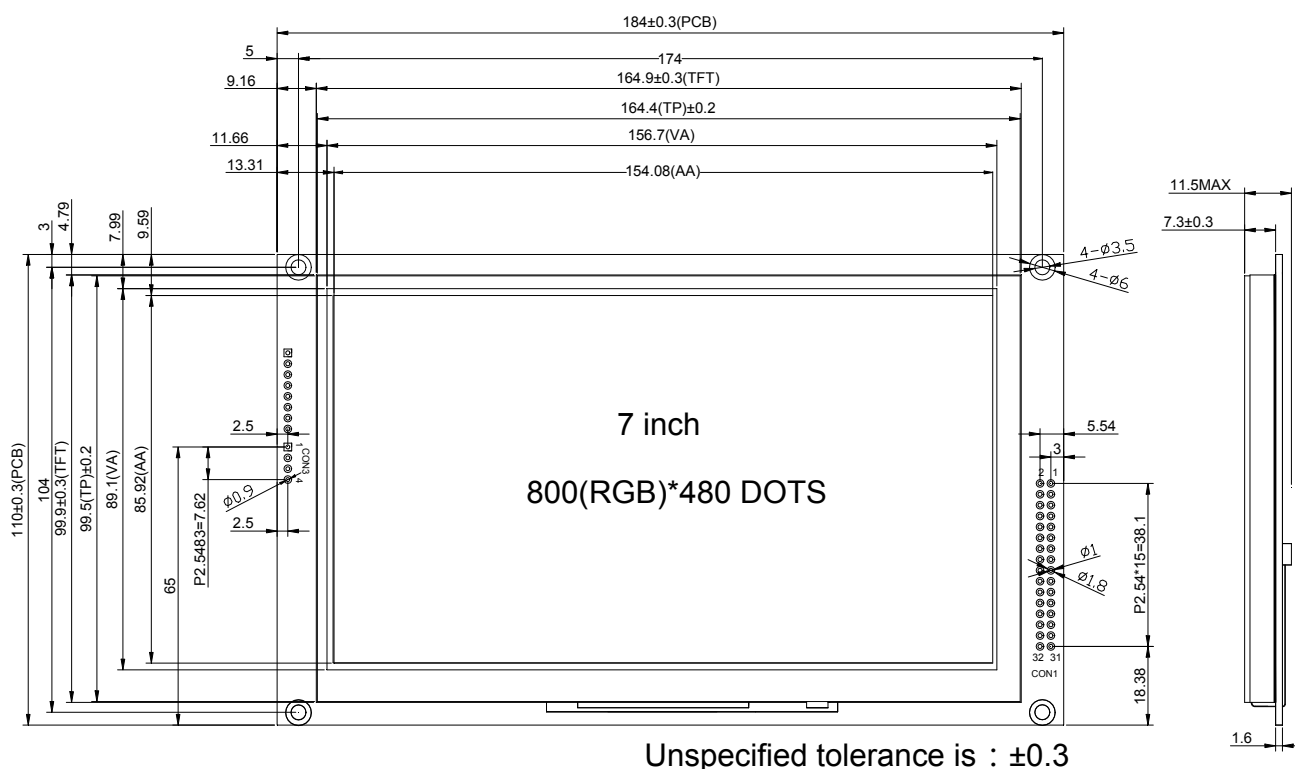


HGF07033V1 with RTP



Pin Connections

CON1:

Pin	Symbol	I/O	Function	Note
1	V _{SS}	0V	Power ground	5.0V Power supply
2	V _{DD}	+5.0V	Power Supply for logic	
3	/RES	H/L	Reset signal,active”L”	5.0V or 3.3V I/O control
4	/RD	H/L	Read signal	
5	/WR	H/L	Write signal	
6	/CS	H/L	Chip select pin	
7	RS	H/L	Command/Data select: H:Data L: Command	
8~23	DB0~DB15	H/L	Date bus line	
24	/WAIT	H/L	Wait signal	
25	/INT	H/L	Interrupt signal	
26	NC	-	No connection	Touch panel control terminals (3.3V I/O control)
27	TCLK	H/L	Touch panel clock Input	
28	TCS	H/L	Chip select Input	
29	TDIN	H/L	Serial data Input	
30	TBUSY	H/L	Busy output	
31	TDOUT	H/L	Serial data output	
32	TINT	H/L	Pen interrupt	

CON3: 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	

Basic Specifications

Item	Specifications
Size	7 inch
Resolution	800×3(RGB)×480
Color depth	65K
Viewing direction	12 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Driver IC	RA8875
Interface type	8 -/16-bits 80-serials parallel MPU interface
Touch panel	With RTP

DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V _{DD}	4.5	5.0	5.5	V
Supply current	I _{DD}	-	-	-	mA
Input signal voltage	V _{IH}	0.7 V _{DD}	-	V _{DD}	V
	V _{IL}	0	-	0.3 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	-	9.6	-	V
Current for LED backlight	I _F	-	160	-	mA
Operating life time for LED backlight	Ta=25℃and I _F =160mA	-	20000	-	Hrs

Optical Specifications

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
View angles	VERT	θT	CR ≥ 10 (Note5)	60	70	-	Degree
		θB		50	60	-	
	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℃and IF =160mA	-	250		cd/m ²

Note: 1. Built-in RA8875 controller 2. Chinese fonts chip(GB2312) optional 3. Power supply for logic(V_{DD}): +5.0V

4. LED Backlight controlled by PWM 5. T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock