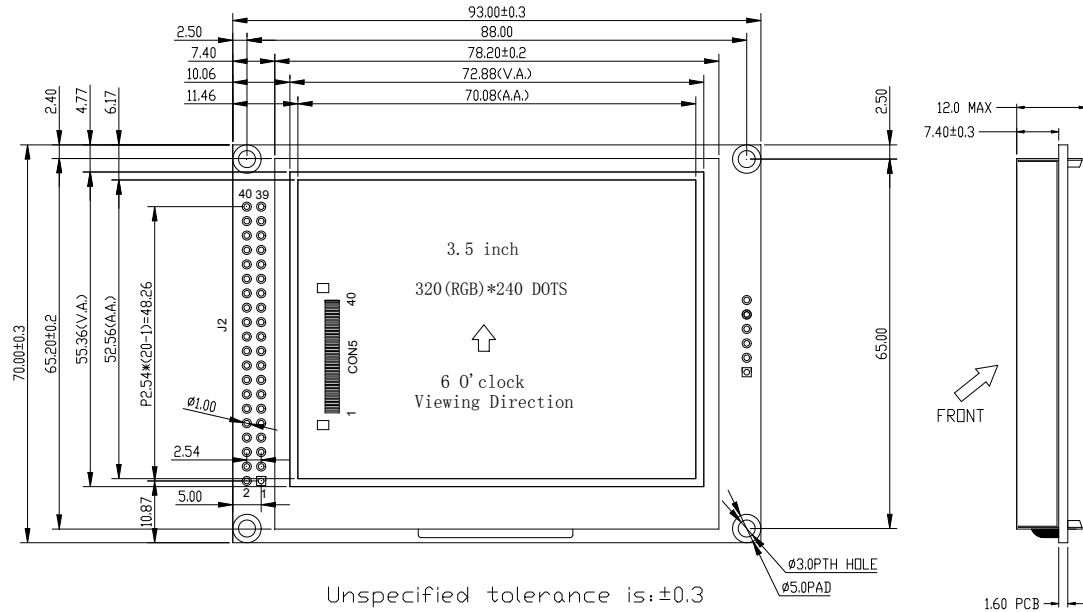


HGF03533 with RTP



Pin Connections: J2/CON5:

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	/REST	H/L	Reset signal ,active “L”	3.3V I/O control
4	/CS	H/L	Chip select signal,active “L”	
5	/RD	H/L	Read signal	
6	/WR	H/L	Write signal	
7	RS	H/L	Data/Command select	
8~23	DB0-DB15	H/L	Data bus	
24	/WAIT	H/L	Wait signal	
25	/INT	H/L	Interrupt signal	Touch panel control terminals (3.3V I/O control)
26	BL_ON	-	No connection / LED backlight ON/OFF control terminal	
27	TP_CLK	H/L	Touch panel clock Input	
28	TP_CS	H/L	Chip select input	
29	TP_DIN	H/L	Serial data input	
30	TP_BUSY	H/L	Busy output	
31	TP_DOUT	H/L	Serial data output	
32	TP_INT	H/L	Pen interrupt	External serial Flash/ROM control terminal. (3.3V I/O control)
33	V _{SS}	0V	Power ground	
34	SFCS	H/L	Chip select pin for external serial Flash/ROM	
35	SFCL	H/L	External Flash/ROM data output	
36	SFDO	H/L	External Flash/ROM data input	
37	SFDI	H/L	External Serial Flash/ROM clock input	
38	V _{SS}	0V	Power ground	
39~40	NC	-	No connection	

Basic Specifications

Item	Specifications
Size	3.5 inch
Resolution	320×3(RGB)×240
Color depth	65K
Viewing direction	6 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Driver IC	RA8871
Interface type	8 /16 bits 8080 parallel MPU interface 8 /16 bits 6800 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 VDD	-	VDD	V
	V _{IL}	0	-	0.3 VDD	V
Output signal voltage	V _{OH}	0.8 VDD	-	VDD	V
	V _{OL}	0	-	0.2 VDD	V
Power supply for LED backlight	V _F	-	19.2	-	V
Current for LED backlight	I _F	-	20	-	mA
Operating life time for LED backlight	Ta=25°C and I _F =20mA	-	20000	-	Hrs

Optical Specifications

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
View angles	VERT	θ _T	CR ≥ 10 (Note5)	60	70	-	Degree
		θ _B		50	60	-	
	HOR	θ _L		60	70	-	
		θ _R		60	70	-	
Contrast ratio	CR	θ=0°	-	-	-	-	
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 =20mA	-	240	-	cd/m ²	

Note:

1. Built-in RA8871 controller
2. Chinese fonts chip(GB2312) optional
3. 5.0V power supply
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