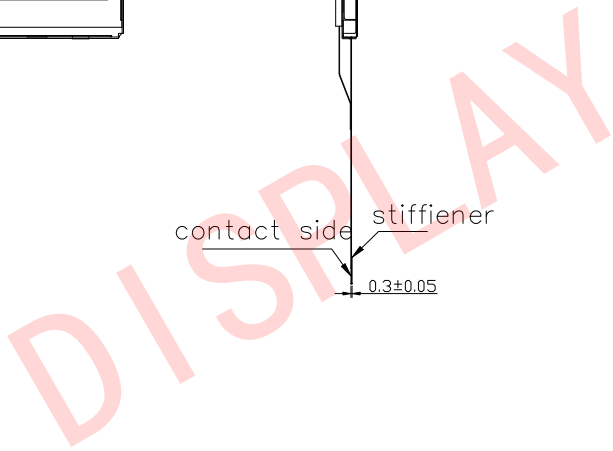


HGF04312 with RTP



Pin Connections

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	XR	-	Touch panel right signal in X axis
38	YD	-	Touch panel lower signal in Y axis
39	XL	-	Touch panel left signal in X axis
40	YU	-	Touch panel upper signal in Y axis

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

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	-	12.8	-	V	
Current for LED backlight	I _F	-	40	45	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	θT	CR ≥ 10 (Note)	40	50	-	Degree
		θB		60	70	-	
	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		0.26	0.31	0.36	
Luminance		L	Ta=25°C and I _F =40mA	200	270	-	cd/m ²

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