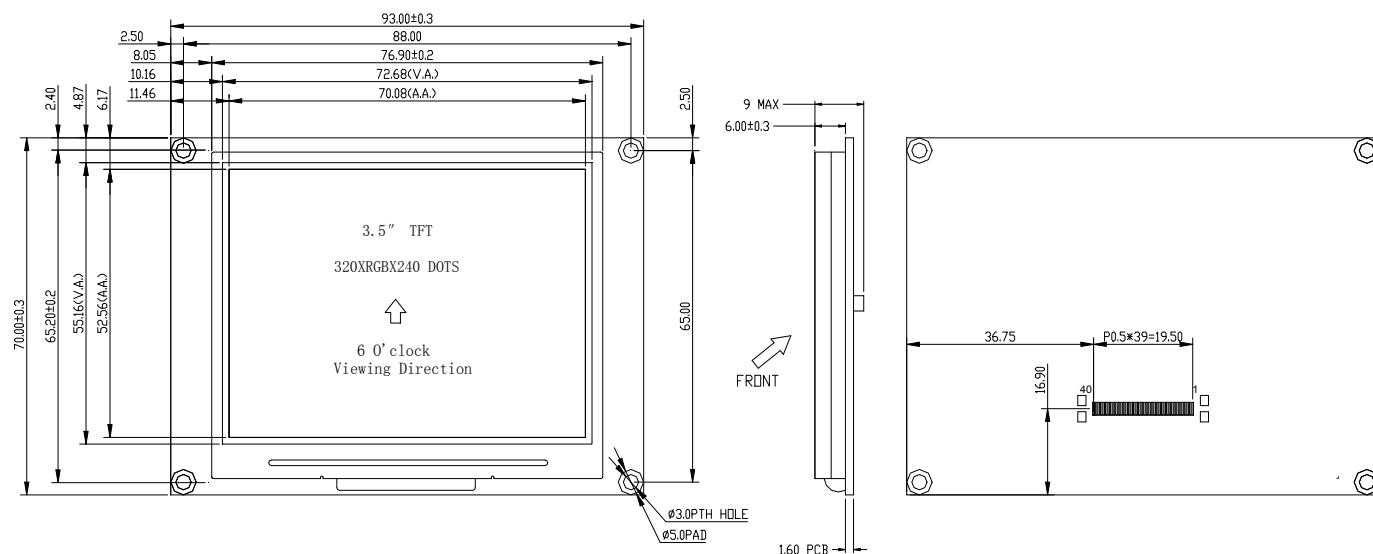




Pin Connections

Pin	Symbol	I/O	Function
1	GND	0V	Power ground
2	DOTCLK	H/L	Pixel clock
3	HSYNC	H/L	Horizontal sync signal
4	VSYNC	H/L	Vertical sync signal
5	GND	0V	Power ground
6~11	R0~R5	H/L	Red data
12	GND	0V	Power ground
13~18	G0~G5	H/L	Green data
19	GND	0V	Power ground
20~25	B0~B5	H/L	Blue data
26	GND	0V	Power ground
27	ENABLE	H/L	Display enable pin
28~29	VDD	+3.3V	Power supply voltage
30	LEDC	H/L	LED Backlight control : H: OFF L: ON
31~32	NC	-	No connect
33~34	VCC	+5.0V	Power supply voltage
35~39	NC	-	No connect
40	GND	0V	Power ground

Basic Specifications

Item	Specifications
Size	3.5 inch
Resolution	320×3(RGB)×240
Color depth	262K
Viewing direction	6 o'clock

Operation temperature	-20 ℃ ~70 ℃
Storage temperature	-30 ℃ ~ 80 ℃
Driver IC	HX8238
Interface type	18-bits parallel RGB interface

DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V _{DD}	2.5	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	-	19.2	-	V
Current for LED backlight	I _F	-	20	-	mA
Operating life time for LED backlight	Ta=25℃ and I _F =20mA	-	20000	-	Hrs

Optical Specifications

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
View angles	VERT	θT	CR ≥ 10 (Note)	50	60	-	Degree
		θB		60	70	-	
	HOR	θL		60	70	-	
		θR		60	70	-	
Contrast ratio		CR	θ=0°	200	350	-	-
Chromaticity	White	X	Backlight is on	0.25	0.30	0.35	
		Y		0.25	0.30	0.35	
Luminance		L	Ta=25℃ and I _F =20mA	-	300	-	cd/m ²

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