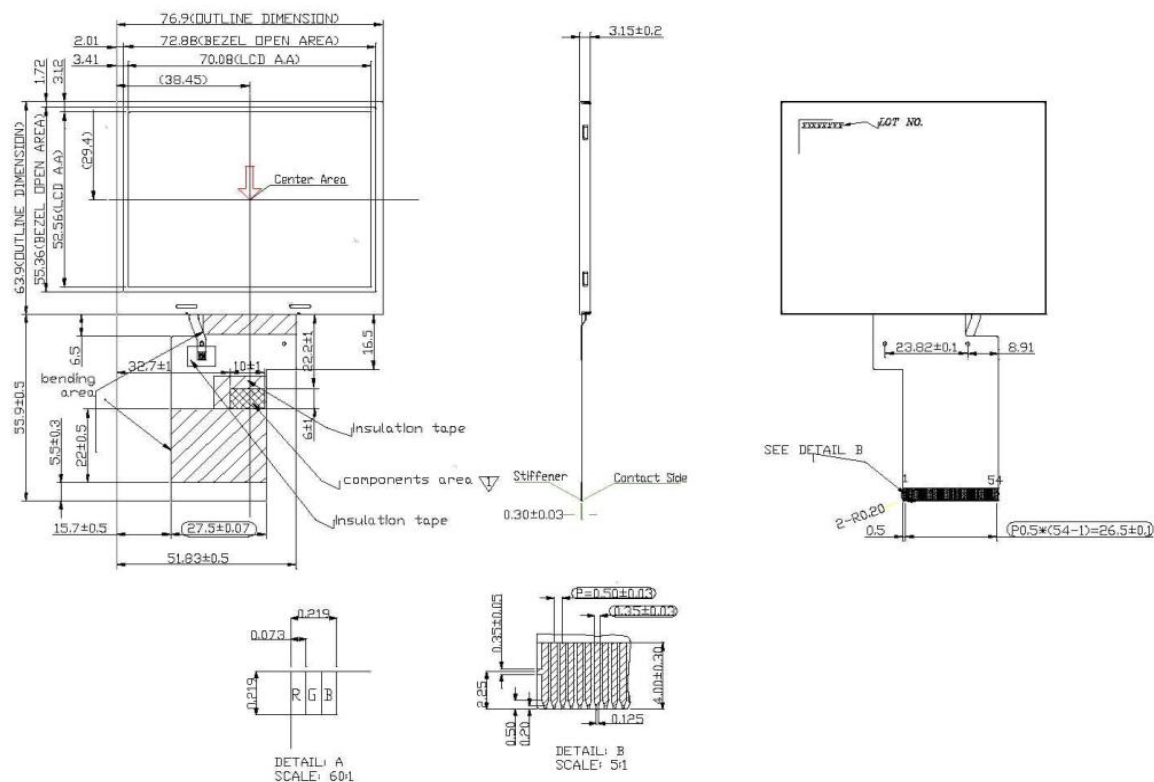




Pin Connections

Pin	Symbol	I/O	Function
1~2	LEDK	0V	Power for LED backlight cathode
3~4	LEDA	19.2V	Power for LED backlight anode
5~7	NC	-	No connection
8	/REST	H/L	Reset signal,active “L”
9	SPENA	H/L	Serial port data enable signal
10	SPCK	H/L	SPI Serial Clock
11	SPDA	H/L	SPI Serial Data Input/output
12~19	B0~B7	H/L	Blue data
20~27	G0~G7	H/L	Green data
28~35	R0~R7	H/L	Red data
36	HSYNC	H/L	Horizontal sync signal
37	VSYNCR	H/L	Vertical sync signal
38	DCLK	H/L	Pixel clock
39~40	NC	-	No connection
41~42	V _{DD}	3.3V	Power supply
43~51	NC	-	No connection
52	DEN	H/L	Data enabling signal
53~54	V _{SS}	0V	Power ground

Basic Specifications

Item	Specifications
Size	3.5 inch
Resolution	320×3(RGB)×240
Color depth	16.7M
Viewing direction	12 o'clock
Operation temperature	-20 ℃ ~70 ℃
Storage temperature	-30 ℃ ~ 80 ℃
Driver IC	NT39016D
Interface type	24-bits parallel 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}	0.7 V _{DD}	-	V _{DD}	V
	V _{IL}	V _{SS}	-	0.3 V _{DD}	V
Output signal voltage	V _{OH}	0.8 V _{DD}	-	V _{DD}	V
	V _{OL}	V _{SS}	-	0.2 V _{DD}	V
Supply voltage for LED backlight	V _F	16.8	19.2	21.6	V
Current for LED backlight	I _F	-	20	25	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)	60	70	-	Degree
		θB		50	60	-	
	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