

VGG804847-0TSLWC



Application

This specification is applied to the 7 inch WVGA supported TFT-LCD module, and can display true 262,144 colors(6 bit/ color). This module is composed of a 7" TFT-LCD panel, a driver circuit and backlight unit.

Features

- WVGA (800×480 pixels) resolution.
- 6 bits LVDS Interface

General Specifications

Item	Specifications	Unit
Screen Size	7 (Diagonal)	inch
Display Format	800RGB(H)×480(V)	dot
Active Area	152.4(H)×91.44(V)	mm
Pixel Pitch	0.1905(H)×0.1905(V)	mm
Pixel Configuration	RGB Vertical Stripe	-
Display Mode	IPS Type / Transmissive Mode / Normally Black	-
Surface Treatment	Anti-Glare	-
Viewing Direction	Full view angle	-
Outline Dimension	166.6(W)×109.4(H)×10.0(D)	mm

Absolute Maximum Ratings

Absolute Ratings of Environment

Item	Symbol	Value		Unit
		Min.	Max.	
Storage Temperature	T _{ST}	-30	+80	°C
Operating Temperature	T _{OP}	-20	+70	°C

Electrical Absolute Ratings

TFT-LCD Module

(Ta=25±2°C, V_{SS}=0V)

Item	Symbol	Value		Unit
		Min.	Max.	
Digital Power Supply Voltage	VCC	-0.3	4.5	V

Backlight Unit

(Ta=25±2°C)

Item	Symbol	Value		Unit
		Min.	Max.	
Current of Backlight Unit	IB	-	250	mA
Voltage of Backlight Unit	VB	-	15	V

Electrical Characteristics

TFT-LCD Module

(Ta=25±2°C)

Item	Symbol	Value			Unit
		Min.	Typ.	Max.	
Power Supply Voltage	VCC	3.0	3.3	3.6	V
Power Supply Current	ICC	-	160	224	mA
Differential Input High Threshold Voltage	VTH	+0.1	-	-	V
Differential Input Low Threshold Voltage	VTL	-	-	-0.1	V
VSYNC Frequency	FV	-	60	-	Hz

Backlight Unit

(Ta=25±2°C)

Item	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Current of Backlight Unit	IB	-	200	-	mA	-
Voltage of Backlight Unit	VB	-	(9.9)	-	V	IB =200mA,(2)
Power Consumption	PBL	-	(1.98)	-	W	IB =200mA,(2)
LED Life Time(25°C)	-	50000	-	-	hr	(1)

Note (1) : LED life time is defined as under 25±2°C , when the average brightness decrease to 50% of original brightness

Note (2) : The BLU is driven by constant current, the voltage value is for reference only.

Input / Output Terminals Pin Assignment

TFT-LCD Module

Connector: HIROSE DF19K-20P-1H or compatible connector

Pin No.	Symbol	I/O	Description
1	VCC	I	+3.3V power supply
2	VCC	I	+3.3V power supply
3	VSS	I	Ground
4	VSS	I	Ground
5	RIN0-	I	Negative LVDS differential data input
6	RIN0+	I	Positive LVDS differential data input
7	VSS	I	Ground
8	RIN1-	I	Negative LVDS differential data input
9	RIN1+	I	Positive LVDS differential data input
10	VSS	I	Ground
11	RIN2-	I	Negative LVDS differential data input
12	RIN2+	I	Positive LVDS differential data input
13	VSS	I	Ground
14	RCLK-	I	Negative LVDS differential clock input
15	RCLK+	I	Positive LVDS differential clock input
16	VSS	I	Ground
17	NC	I	Not connection
18	NC	I	Not connection
19	VSS	I	Ground
20	VSS	I	Ground

Backlight Unit

Connector: JST BHSR-02VS-1(N) or compatible connector

Pin No.	Symbol	I/O	Description	Wire Color
1	VLEDA	I	Backlight LED Anode.	Red
2	VLEDC	I	Backlight LED Cathode.	Black

Outline Drawing

