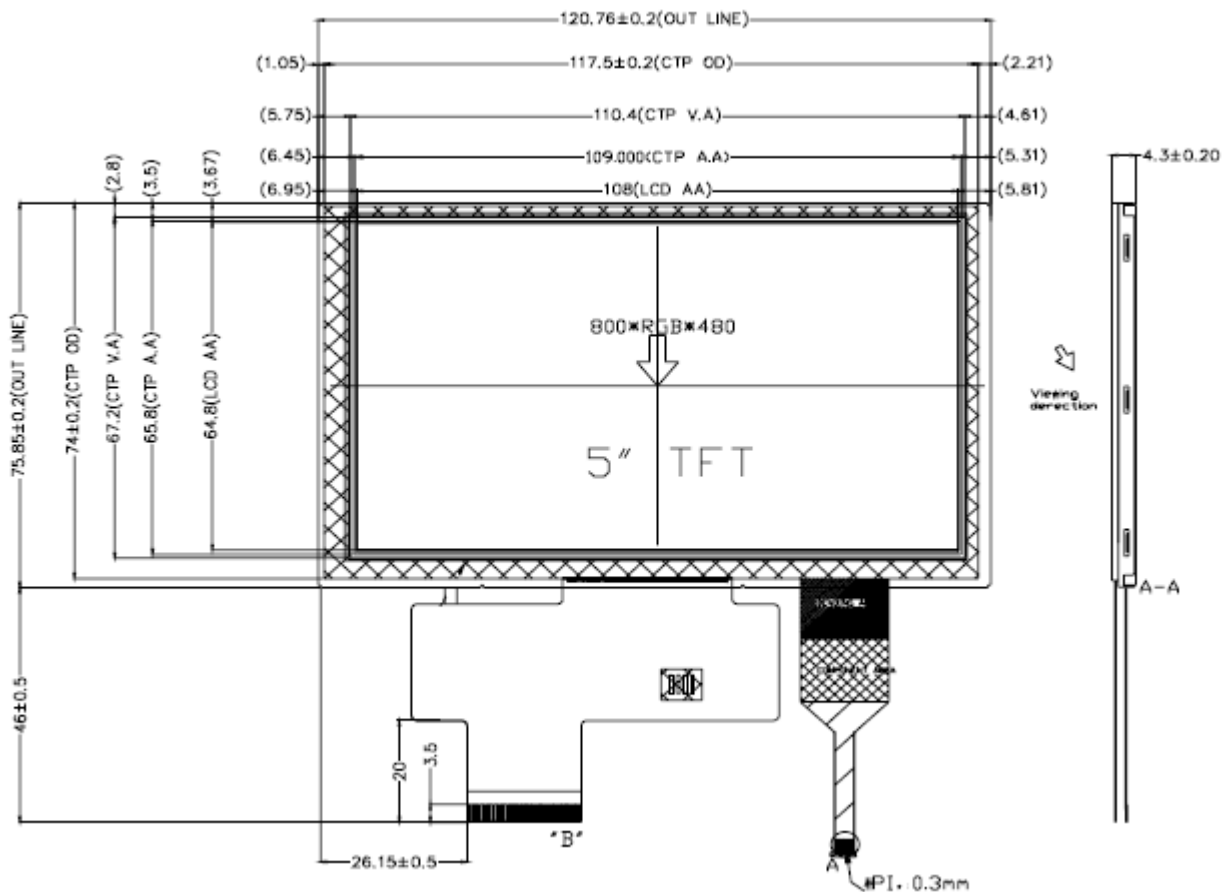


SPECIFICATION

5.0" TFT display With Resistive Touch Panel

- TFT Transmissive LCD Module
- 800 x RGB x 480 Dots
- 16.7M Color
- Interfaces: 24 bit RGB
- Wide temperature with white LED backlight

Part Number: FDS800x480(120.7x75.85)TFE



Features:

1. 5.0" TFT-LCD, 16.7M COLOR
2. DRIVER IC: HX8664B+HX8264D
3. OP: -20°C~70°C / ST: -30°C~80°C
4. BACKLIGHT: LED
5. ROHS Compliant

GENERAL DESCRIPTION

- 5.0" (diagonal), 800xRGBx480 dots, Transmissive TFT LCD module
- Viewing Direction: 12 o'clock
- Driving IC: HX8664B + HX8264D or equivalent
- 480 NITS
- 24 bit RGB interface
- Resistive Touch panel

General Specifications

PARAMETER		SPECIFICATIONS	UNIT
Outline dimensions		120.7(W) x 75.85(H) x 4.3(D) (Exclude FPC, cables of backlight)	mm
Color TFT 320xRGBx240	View area	110.4(W) x 67.2(H)	mm
	TP view area	110.4(W) x 67.2(H)	mm
	LCD active area	108.0(W) x 64.8(H)	mm
	Display format	800 x RGB x 480	dots
	Color configuration	RGB Vertical Stripe	-
	Dot size	0.135(W) x 0.135(H)	mm

ELECTRICAL Maximum Rating

ITEM	SYMBOL	MIN	MAX	UNIT	NOTE
Supply voltage for logic	V_{DD}	-0.3	4.0	V	
Input voltage for logic	V_{IN}	-0.5	$V_{DD} + 0.3$	V	
Supply Current (One LED)	I_{LED}		60	mA	

ELECTRICAL Specifications

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Supply voltage	V_{DD}	3.0	3.3	3.6	V	Applicable terminal: V_{DD}
Input voltage	V_{IL}	-0.3	--	$0.2 V_{DD}$	V	
	V_{IH}	$0.8 V_{DD}$	--	V_{DD}	V	
Input leakage current	I_{LKG}	--	--	--	μA	
Voltage for LED backlight	V_L	(18)	(19.2)	(20.4)	V	Note 1
Current for LED backlight	I_L	(30)	(40)	(50)	mA	
LED life time	--	20,000	--	--	Hr	Note 2

Note 1: The LED Supply Voltage is defined by the number of LED at $T_a=25^\circ C$ and $I_L=40mA$.

Interface Pin Connections

PIN NO.	SYMBOL	DESCRIPTION
1	VLED-	Backlight Power Ground
2	VLED+	Backlight Power Supply
3	GND	Power Ground
4	VDD	Power Supply
5-12	R0-R7	RED Data
13-20	G0-G7	GREEN Data
21-28	B0-B7	BLUE data
29	GND	Power Ground
30	CLKIN	In external interface mode, serves as a dot clock signal
31	STBYB	Standby mode control pin
32	HSD	In external interface mode, serves as a horizontal synchronized signal input
33	VSD	In external interface mode, serves as a vertical synchronized signal input
34	DEN	In external interface mode, polarity of ENABLE signal is synchronized with valid graphic data input
35	NC	No connection
36	GND	Power Ground
37	XR	Touch Panel Control Pin
38	YD	
39	XL	
40	YU	

Note: For digital RGB input data format, both SYNC mode and DE+SYNC mode are supported. If ENB signal is fixed low, SYNC mode is used. Otherwise, DEN+SYNC is used.

Environmental Conditions

ITEM	Operating Temperature (T _{opr})		Storage Temperature (T _{stg})		REMARK
	MIN	MAX	MIN	MAX	
Ambient Temperature	-20°C	+70°C	-30°C	+80°C	Dry

Note 1: Product cannot sustain at extreme storage conditions for long time.