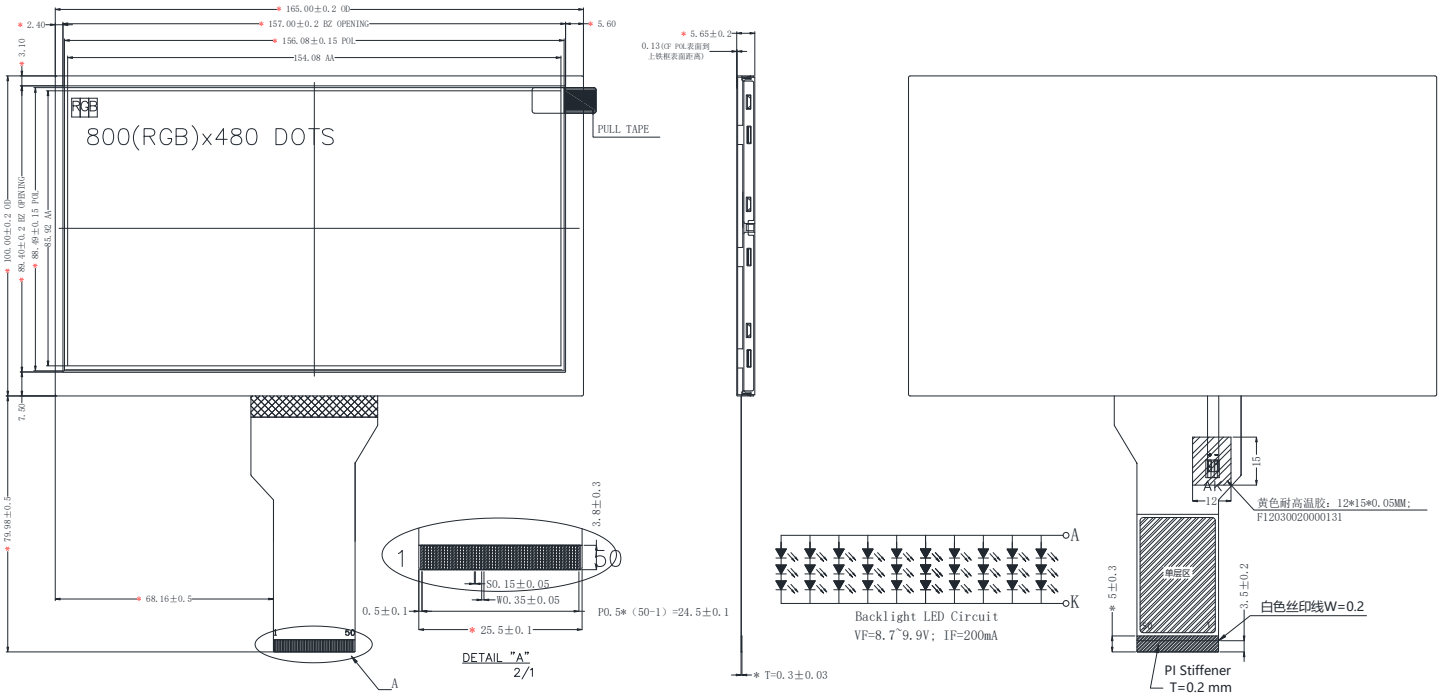
FANNAL ELECTRONICS

PRODUCT GROUP
TFT- LCM

FN0700D003A



GENERAL INFORMATION		
Item	Contents	Unit
LCD Size	7.0	Inch
Number Of Pixels	800(H)RGB×480(V)	---
Sub Pixel Pitch	0.0642(H)×0.1790(V)	mm
Active Area	154.08(H)×85.92(V)	mm
Viewing area (W x H)	157.0(H)×89.4(V)	mm
LCM outline (W x H x T)	165.0(W)×100.0(H)×5.65(D)	mm
Display mode	TN,NW	---
View angle (L/R/U/D)	70/70/50/70	Degree
TFT Driver IC	/	---
Interface Type	24-bit RGB	---
Color depth	16.7M	Color
LCM brightness	TYP 950	Cd/m²
With/Without tp	Without tp	---
TFT Power consumption	13.2	mW
BL Power consumption	1860	mW
Operation Temperature	-20~70	℃
LED life time	TYP 30,000	Hrs

ELECTRICAL CHARACTERISTICS					
Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply Voltage	VDD	3.0	3.3	3.6	V
	AVDD	10.2	10.4	10.6	V
	VGH	14.5	15.0	15.5	V
	VGL	-10.5	-10	-9.5	V
	VCOM	3.54	4.04	4.54	V
Input logic high voltage	VIH	0.7VDD	-	VDD	V
Input logic low voltage	VIL	0	-	0.3VDD	V

BACKLIGHT DRIVING CONDITION					
Item	Symbol	Min	Typ.	Max	Unit
Forward current	If	-	200	-	mA
Forward voltage	Vf	8.7	9.3	9.9	V

INTERFACE DESCRIPTION			
No.	SYMBOL	I/O	Description
1-2	LEDA	P	Power for LED backlight(Anode)
3-4	LEDK	P	Power for LED backlight(Cathode)
5	GND	P	Power ground
6	VCOM	P	Common voltage
7	VDD	P	Power supply
8	MODE	I	DE/SYNC mode select
9	DE	I	Data Input Enable
10	VS	I	Vertical Sync Input
11	HS	I	Horizontal Sync Input
12-19	B7-B0	I	Blue data
20-27	G7-G0	I	Green data
28-35	R7-R0	I	Red data
36	GND	P	Power ground
37	DCLK	I	Sample clock
38	GND	P	Power ground
39	L/R	I	Left / right selection
40	U/D	I	Up/down selection
41	VGH	P	Gate ON Voltage
42	VGL	P	Gate OFF Voltage
43	AVDD	P	Power for Analog Circuit
44	RESET	I	Global reset pin.
45	NC	-	No connection
46	VCOM	P	Common Voltage
47	DITHB	I	Dithering function
48	GND	P	Power ground
49-50	NC	-	No connection