SPECIFICATION

CUSTOMER : _____

MODULE NO.: WF70-800480GD#Y01-FC

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGBx480(TFT)	dots
Module dimension	165.0(W) x 100(H) x 7.2(D)	mm
Active area	154.08 x 85.92	mm
Dot pitch	0.0642 x 0.179	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
With /Without TP	With RTP	
Surface	Anti-Glare	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Power voltage	VCC	3.0	3.3	3.6	V	
	AVDD	10.2	10.4	10.6	V	
	VGH	15.3	16.0	16.7	V	
	VGL	-7.7	-7.0	-6.3	V	
Input signal voltage	VCOM	2.6	3.6	4.6	V	
Input logic high voltage	VIH	0.7VCC	-	VCC	℃	
Input logic low voltage	VIL	0	-	0.3VCC	℃	

Interface

LCM PIN Definition

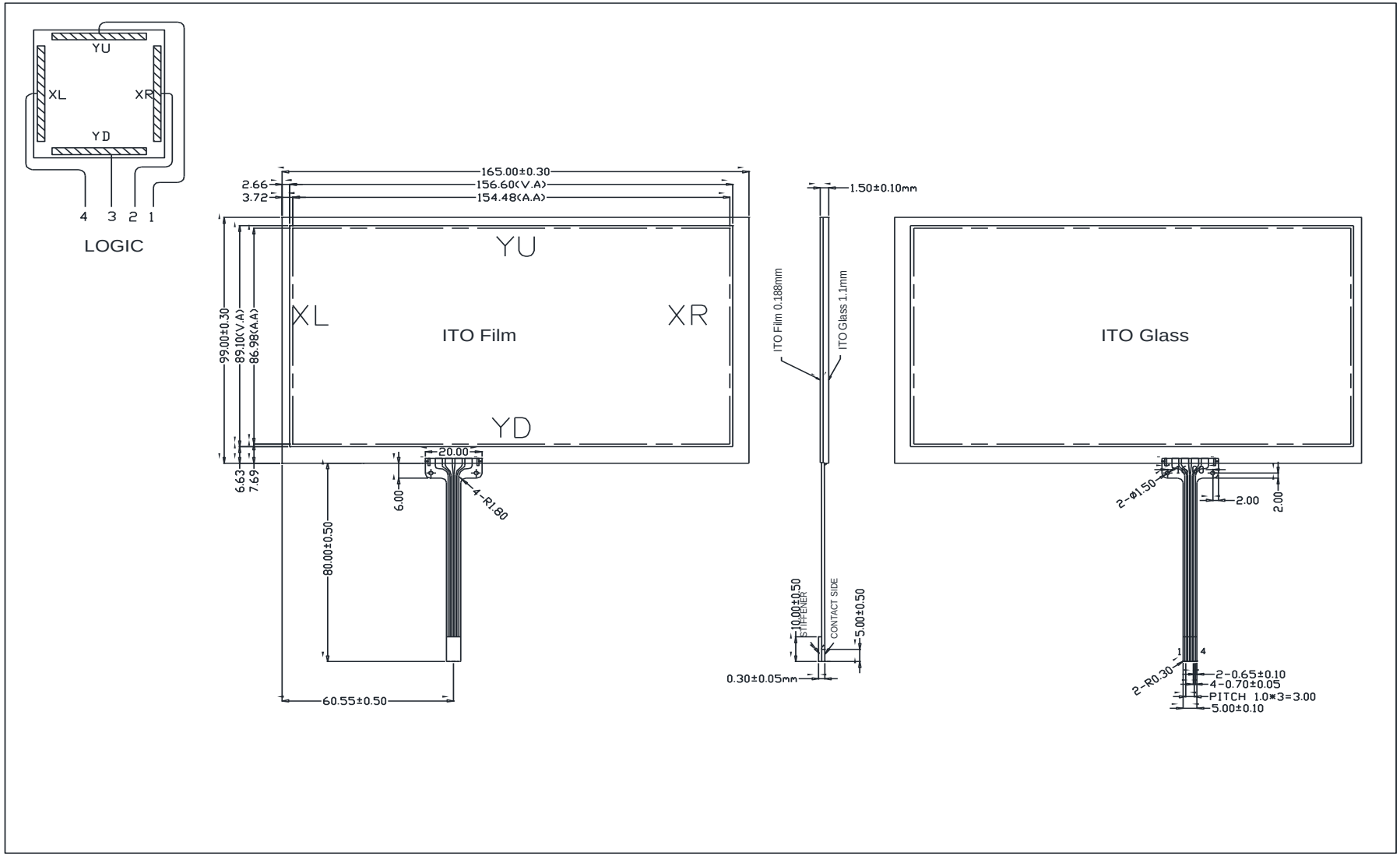
FPC Connector is used for the module electronics interface. The recommended model is FH12A-50S-0.5SH manufactured by hirose

Pin No,	Symbol	I/O	Function	Remark
1	VLED+	P	Power supply for backlight	Note 8
2	VLED+	P	Power supply for backlight	Note 8
3	VLED-	P	Backlight ground	Note 8
4	VLED-	P	Backlight ground	Note 8
5	GND	P	Power ground	
6	VCOM	I	Common voltage	
7	VCC	P	Power for digital circuit	
8	MODE	I	DE/SYNC mode select	Note 1
9	DE	I	Data input enable	
10	VS	I	Vertical Sync input	
11	HS	I	Horizontal sync input	
12	B7	I	Blue data (MSB)	
13	B6	I	Blue data	
14	B5	I	Blue data	
15	B4	I	Blue data	
16	B3	I	Blue data	
17	B2	I	Blue data	
18	B1	I	Blue data	Note 2
19	B0	I	Blue data(LSB)	Note 2
20	G7	I	Green data(MSB)	
21	G6	I	Green data	
22	G5	I	Green data	
23	G4	I	Green data	
24	G3	I	Green data	
25	G2	I	Green data	
26	G1	I	Green data	Note 2
27	G0	I	Green data(LSB)	Note 2
28	R7	I	Red data(MSB)	
29	R6	I	Red data	
30	R5	I	Red data	
31	R4	I	Red data	
32	R3	I	Red data	
33	R2	I	Red data	Note 2
34	R1	I	Red data	Note 2
35	R0	I	Red data(LSB)	
36	GND	P	Power ground	
37	DCLK	I	Sample clock	Note 3
38	GND	P	Power ground	
39	L/R	I	Left /right selection	Note 4,5
40	U/D	I	Up/ down selection	Note 4,5
41	VGH	P	Gate ON voltage	
42	VGL	P	Gate OFF voltage	

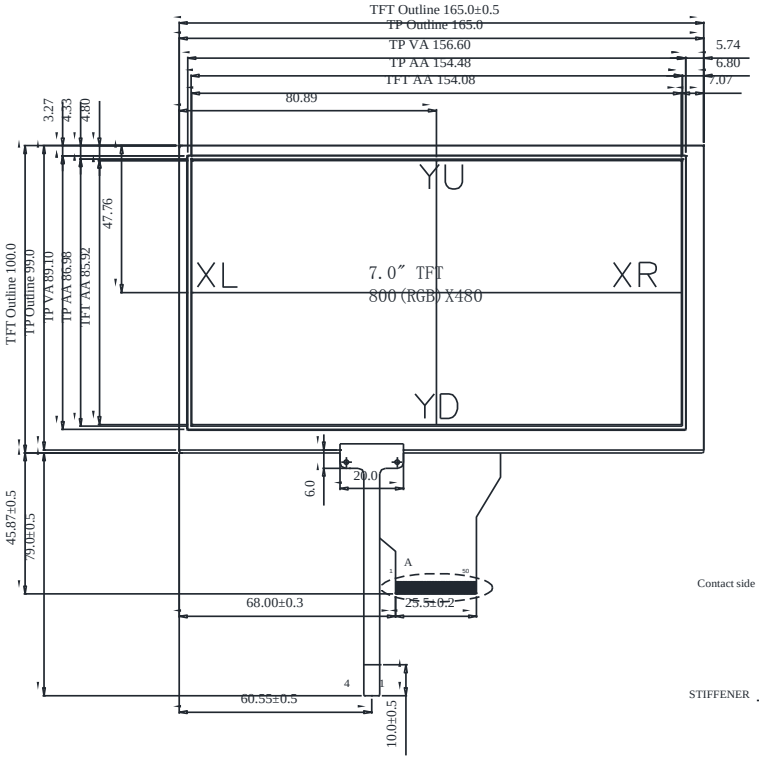
43	AVDD	P	Power for analog circuit	
44	RESET	I	Global reset pin	Note 6
45	NC	-	No connection	
46	VCOM	I	Common voltage	
47	DITHB	I	Dithering function	Note 7
48	GND	P	Power ground	
49	NC	-	No connection	
50	NC	-	No connection	

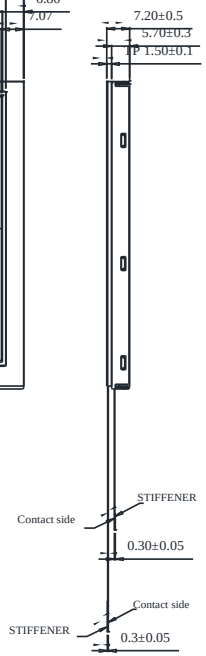
Setting of scan control input		Scanning direction
U/D	L/R	
GND	VCC	Up to down, left to right
VCC	GND	Down to up, right to left
GND	GND	Up to down, right to left
VCC	VCC	Down to up, left to right

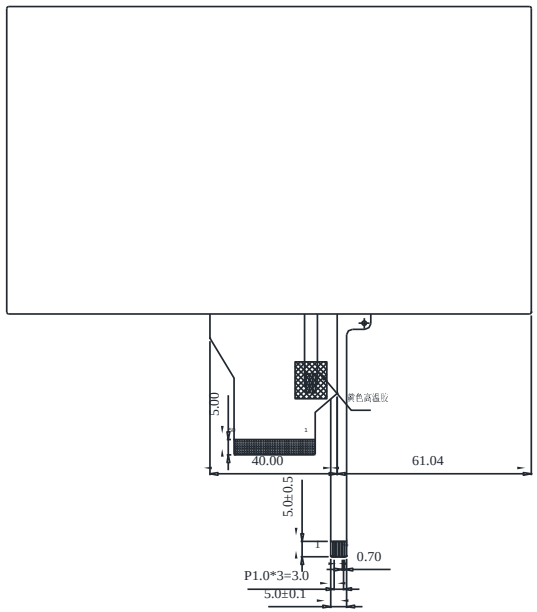
Touch Panel Information



Contour Drawing

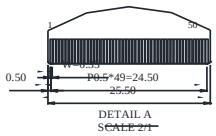






PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VLED+	26	G1
2	VLED+	27	G0
3	VLED−	28	R7
4	VLED−	29	R6
5	GND	30	R5
6	VCOM	31	R4
7	VCC	32	R3
8	MODE	33	R2
9	DE	34	R1
10	VS	35	R0
11	HS	36	GND
12	B7	37	DCLK
13	B6	38	GND
14	B5	39	L/R
15	B4	40	U/D
16	B3	41	VGH
17	B2	42	VGL
18	B1	43	AVDD
19	B0	44	RESET
20	G7	45	NC
21	G6	46	VCOM
22	G5	47	DITHB
23	G4	48	GND
24	G3	49	NC
25	G2	50	NC

PIN NO.	SYMBOL
1	YU
2	XR
3	YD
4	XL



The non-specified tolerance of dimension is ±0.3 mm .