Winstar Display Co., LTD
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SPECIFICATION

CUSTOMER ：

MODULE NO.: WF102-800480A16#001-FC

General Specification

Parameter		Specifications	Unit
LCD size		10.2(Diagonal)	Inch
Display mode		Normally white, Transmissive type	
Number of Pixel		800 RGB x 480	Dot
Active area		222.0(W) × 132.48(H)	mm
Pixel Pitch		0.0925(W) × 0.276(H)	mm
Pixel Configuration		RGB-Stripe	
Interface		Digital	
Contrast Ratio		300	
View Angle L/R/U/D (CR>10)		65,65,45,65	Degree
View Direction		12 o'clock	
Gray Scale Inversion Direction		6 o'clock	
Outline Dimension		235.0 (H) x145.0 (V) x 8.35 (D)	mm
Weight		350 (typical)	g
Temperature Range	Operation	-20~70	^{0}C
	Storage	-30~80	^{0}C

Electrical Characteristics

ELECTRICAL CHARACTERISTICS OF LCM

ITEM	SYMBOL	CONDITION	MIN.	TYPICAL	MAX.	UNIT
Digital Power Supply Voltages	V_{DD}	V_{DD} -DGND	3.0	3.3	3.6	V
Digital Supply Current Consumption	I_{VDD}	V_{DD}=3.3V	900	1150	1200	mA
Analog Power Supply Voltage	AVDD		8.8	9.0	9.2	V
Analog Supply Current Consumption	IAVDD		-	25	50	mA
Gate Driver Positive Supply Voltage	VGH		15.3	16	16.7	V
Gate Driver Positive Supply Current	IVGH		-	0.3	0.5	mA
Gate Driver Negative Supply Voltage	VGL		-7.7	-7	-6.3	V
Gate Driver Negative Supply Current	IVGL		-	0.2	1.0	mA
Common Electrode Driving Voltage	VCOM	Black Pattern	3.65	3.85	4.5	V
Supply Current for LED B/L	I_{LED}		180	200	220	mA
Supply Voltage for LED B/L	V_{LED}		8.4	9.3	10.5	V
Input Logic Signal High Threshold	VIH		0.7 V_{DD}	-	V_{DD}	V
Input Logic Signal Low Threshold	VIL		0	-	0.3 V_{DD}	V
Brightness	L	White Pattern	-	250	-	cd/m2

＊ Recommended TFT Driving for 25℃

Interface Pin Function

LCM PIN Definition

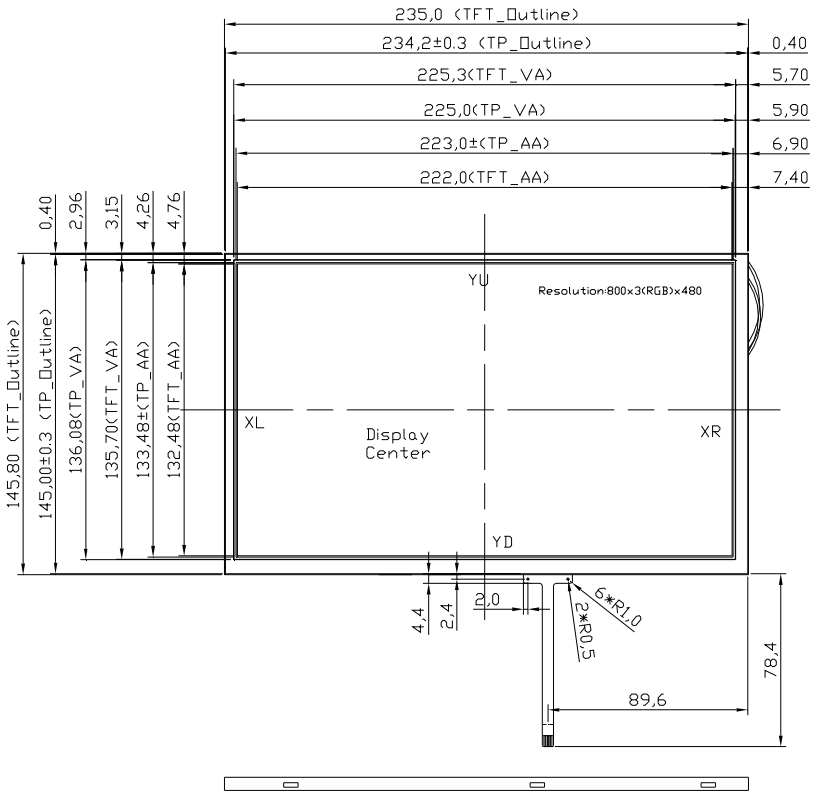
P/N	Symbol	16 B IT Function
1	VDD	Power supply for Logic
2	VDD	Power supply for Logic
3	DB0	Data bus
4	DB1	
5	DB2	
6	DB3	
7	DB4	
8	DB5	
9	DB6	
10	DB7	
11	DB8	
12	DB9	
13	DB10	
14	DB11	
15	DB12	
16	DB13	
17	DB14	
18	DB15	
19	CS	Chip select
20	A0	0: Command; 1: Data select
21	E	Enable select
22	R/W	0: Write cycle 1: Read cycle
23	NC	No connection
24	RST	Reset
25	NC	No connection
26	NC	No connection
27	NC	No connection
28	NC	No connection
29	NC	No connection
30	NC	No connection
31	NC	No connection
32	GND	Ground

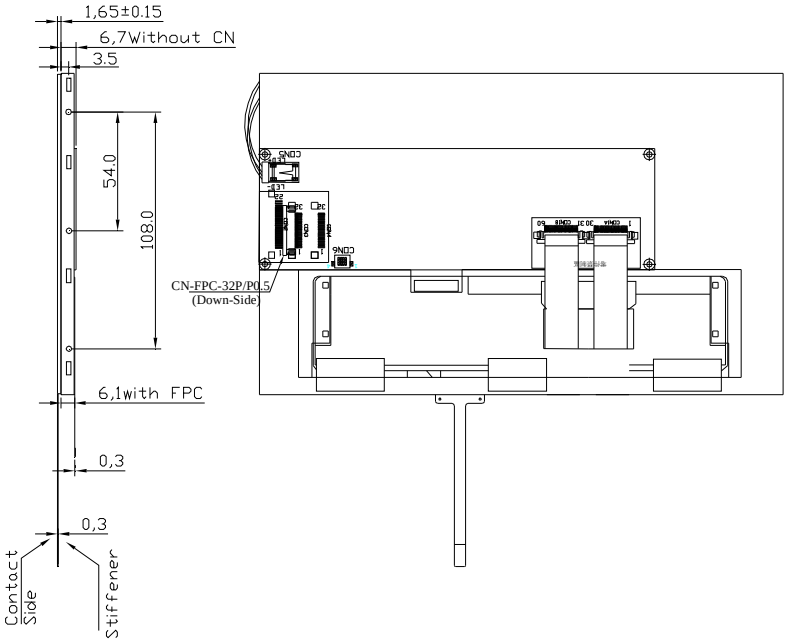
LED BACKLIGHT (J1): JST BHSR-02VS-1

Pin No.	Symbol
1	A
2	K

CORRESPONDABLE BACKLIGHT CONNECTOR : SM 02B-BHSS-1

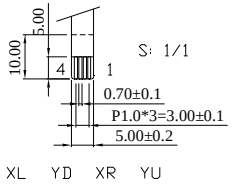
Contour Drawing





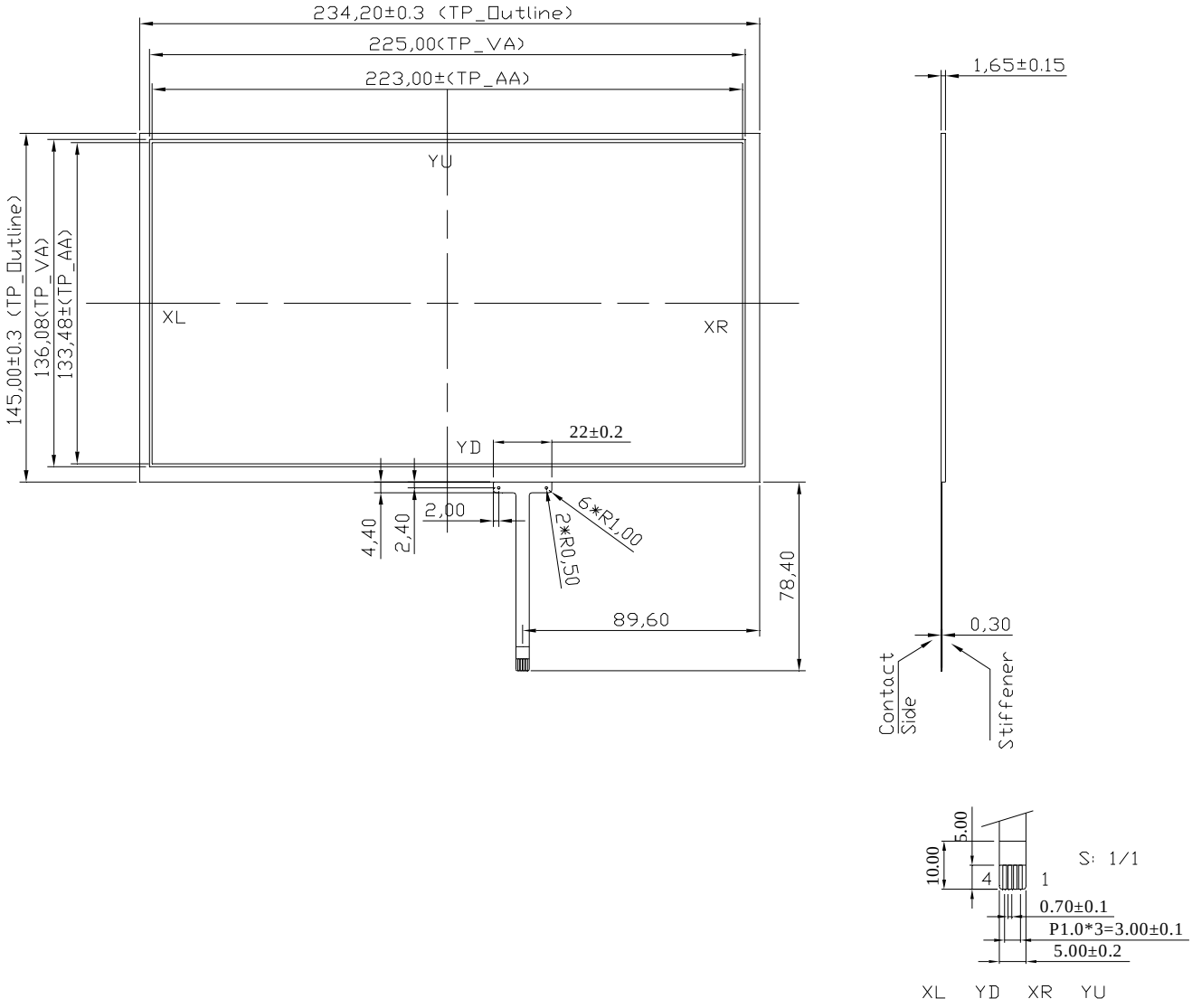
PIN NO	SYMBOL
1	VDD
2	VDD
3	DB0
4	DB1
5	DB2
6	DB3
7	DB4
8	DB5
9	DB6
10	DB7
11	DB8
12	DB9
13	DB10
14	DB11
15	DB12
16	DB13
17	DB14
18	DB15
19	CS
20	A0
21	E
22	R/W
23	NC
24	RST
25	NC

PIN NO	SYMBOL
26	NC
27	NC
28	NC
29	NC
30	NC
31	NC
32	GND



UNIT: mm

Touch panel Information



Non-Proper Ways to handle the touch screen

1. Do not pull or crease the tail of the touch screen.
2. Tails, unless the drawing calls out for a bend, are to be free of permanent creases in the polyester, slight crease lines in the adhesive tail cover are allowed

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