Winstar Display Co., LTD
華凌光電股份有限公司
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SPECIFICATION

CUSTOMER : _____

MODULE NO.: WX320240D-TFH-V#I150

APPROVED BY: **(FOR CUSTOMER USE ONLY)**	**PCB VERSION:** **DATA:**

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
first FC components			

VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2013/11/28		First issue

General Specification

ITEM	STANDARD VALUE	UNIT
Number of dots	320x240	—
Outline dimension	94.7 x 83.3 x 13.0max	mm
View area	81.4 x 61.0	mm
Active area	76.78 x 57.58	mm
Dot size	0.225 x 0.225	mm
Dot pitch	0.24 x 0.24	mm
LCD type	FSTN Positive Transflective (In LCD production, It will occur slightly color difference. We can only guarantee the same color in the same batch.)	
Duty	1/240	
View direction	6 o'clock	
Backlight	LED, White	
IC	RA8835	

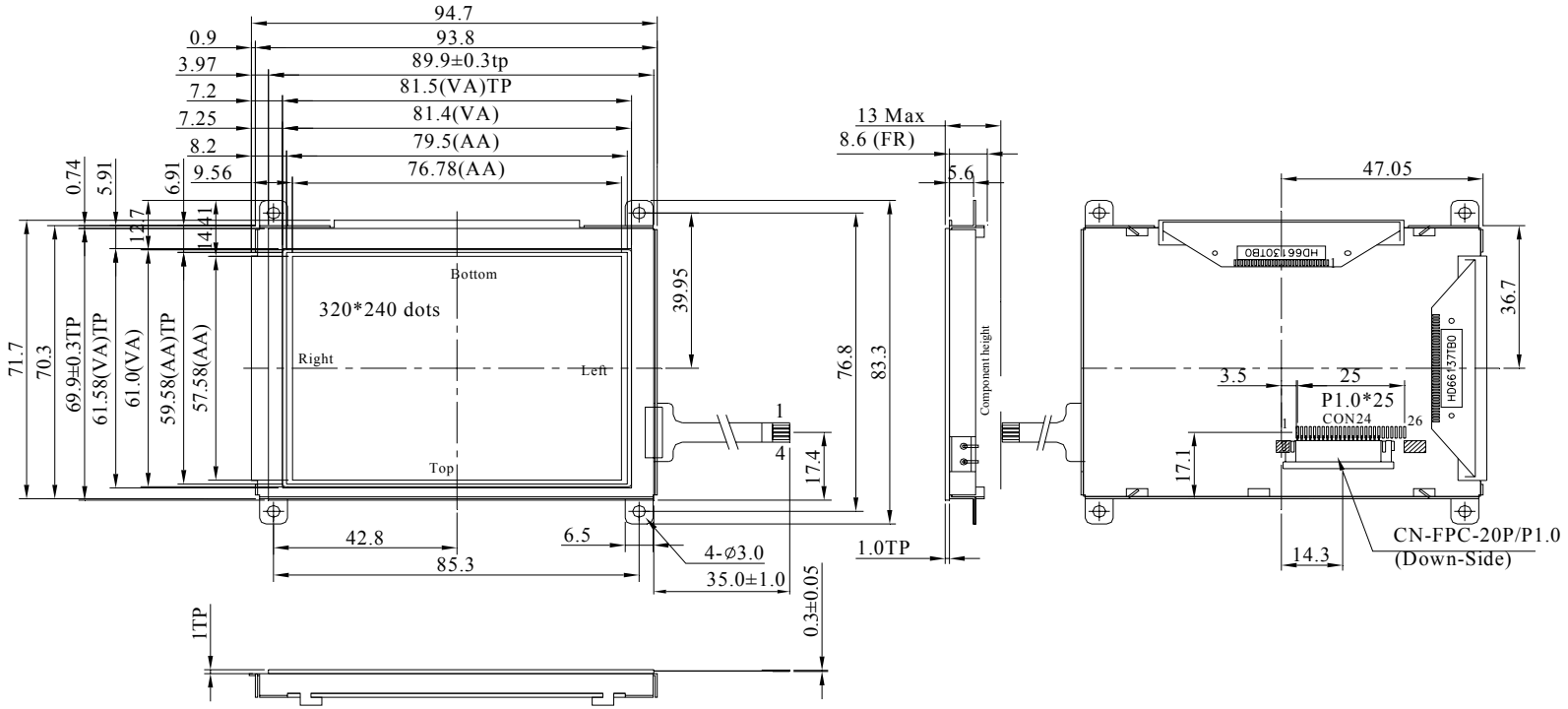
Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_I	-0.3	—	$V_{DD+0.3}$	V
Supply Voltage For Logic	V_{DD}-V_{SS}	-0.3	—	7.0	V
Supply Voltage For LCD	Vo-V_{SS}	0	—	30	V

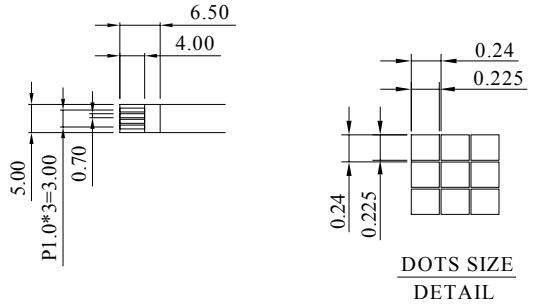
Interface Pin Function

Pin No.	Symbol	Level	Description
1	V_{SS}		Ground
2	V_{DD}		Power supply for Logic
3	V_O	(Variable)	Operation voltage LCD driving
4	A_0	H/L	H:Data L:Instruction
5	$\overline{WR}$	H	8080 family: Write signal, 6800 family: R/W signal
6	$\overline{RD}$	L	8080 family: Read signal, 6800 family: Enable clock
7-14	DB0-DB7	H/L	DB0 Data bus line
15	CS	H/L	Chip Enable
16	RES	H/L	Reset
17	VEE		Positive voltage output
18	SEL1	H/L	8080 OR 6800 Family Interface Select ; H:68xx , L:80xx
19	A		Power supply for B/L
20	K		Power supply for B/L
21	NC		No connection
22	NC		No connection
23	NC		No connection
24	NC		No connection
25	NC		No connection
26	NC		No connection

Contour Drawing &Block Diagram



PIN#	Assignment
1	Right
2	Bottom
3	Left
4	Top

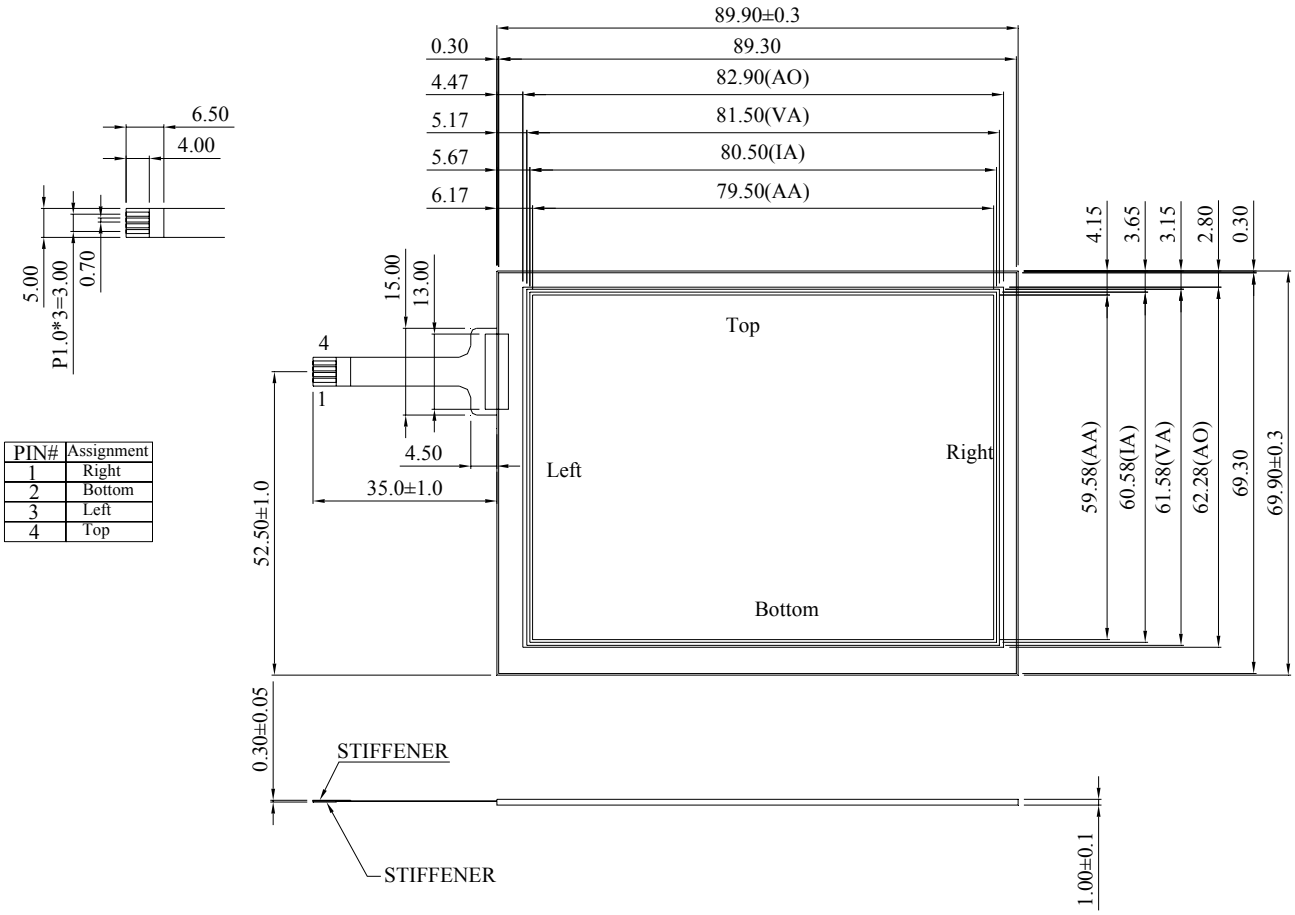


CON24

PIN NO.	SYMBOL
1	VSS
2	VDD
3	VO
4	A0
5	$\overline{WR}$
6	$\overline{RD}$
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	$\overline{CS}$
16	$\overline{RES}$
17	VEE+
18	SEL1
19	A
20	K
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC

The non-specified tolerance of dimension is ±0.2mm .

Touch Panel Specifications



PIN#	Assignment
1	Right
2	Bottom
3	Left
4	Top

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.