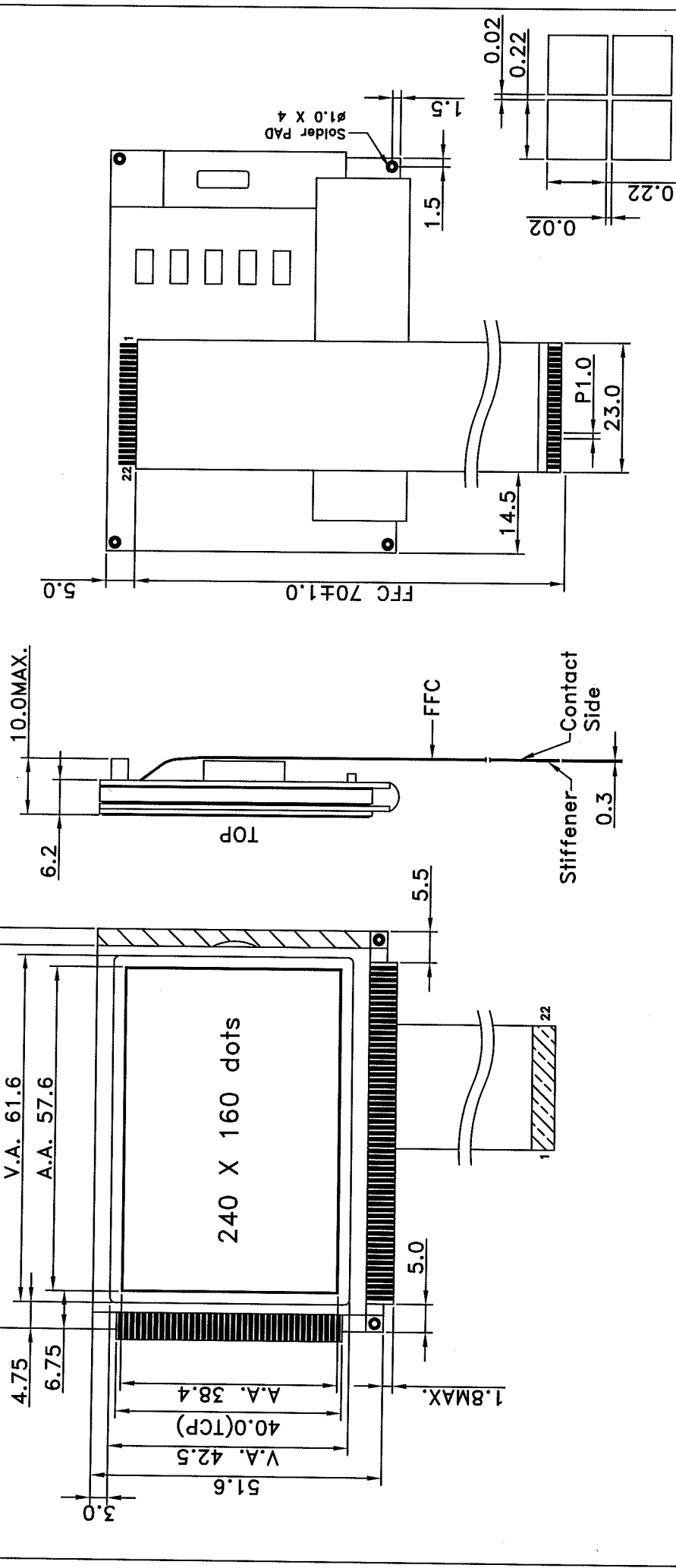
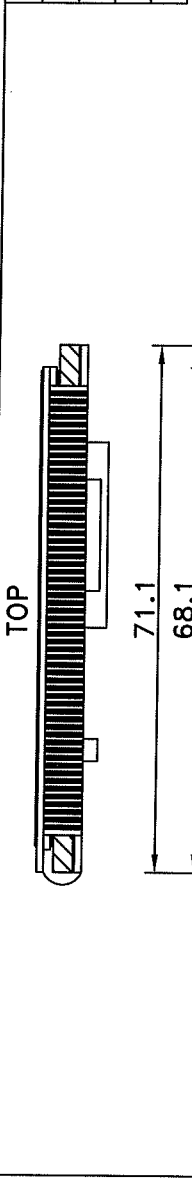
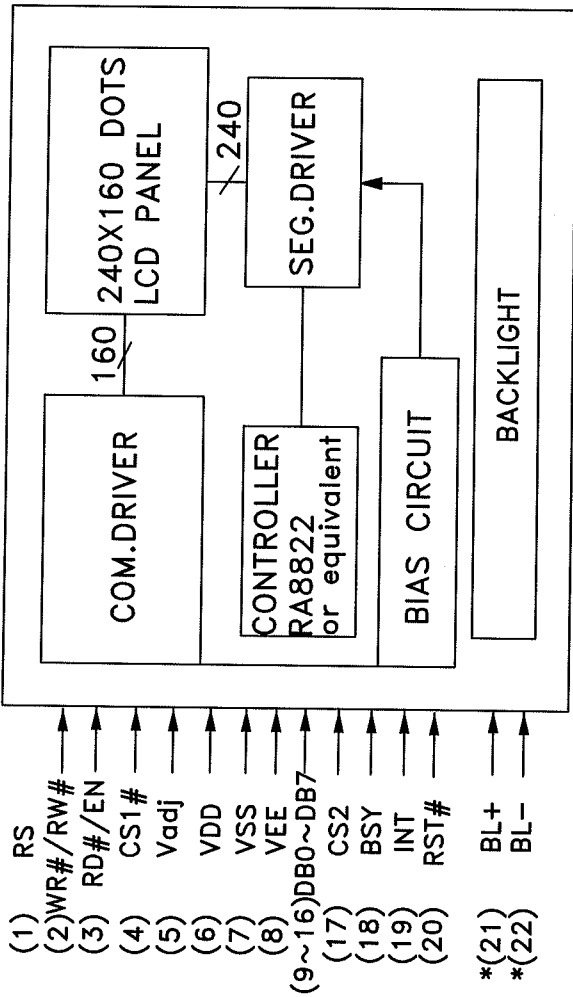


MARK	REASON	PREPARED	DATE
1			
2			
3			
4			



TOLERANCE IF NOT SPECIFY SCALE ±0.5mm NOT ON SCALE		UNIT IN mm	CLOVER CHINA DISPLAY (SHENZHEN) LTD.		SHEET 1 OF 3
REV.	REVISION RECORD	DATE	CUSTOMER	APPROVED	MODEL NO. ZCV240160M
00	1st ISSUE	15 MAR 12	STANDARD	APPROVED	TITLE: DIMENSION
			AGENT	APPROVED	DRAWN BY: ZHOU.H.Y DATE :15 MAR 12
			CUSTOMER REF.	OUR REF. X4940	CHECKED BY : Alex.Su DATE :15 MAR 12
					APPROVED BY: <i>[Signature]</i> DATE : 23/3/12

# BLOCK DIAGRAM



NOTE (\*): Pin (21) (22) is used for backlight version only

PIN	SYMBOL	FUNCTION
1	RS	Register select
2	WR#/RW#	Write signal(8080 mode)/Read-Write(6800 mode)
3	RD#/EN	Read signal(8080 mode)/Enable(6800 mode)
4	CS1#	Chip enable(Low active)
5	Vadj	Contrast adjustment terminal
6	VDD	Logic power supply
7	VSS	Power supply(Ground)
8	VEE	Supply voltage for LCD driving
9	DB0	Data bus line
10	DB1	
11	DB2	
12	DB3	
13	DB4	
14	DB5	
15	DB6	
16	DB7	
17	CS2	Chip enable(High active)
18	BSY	(RA8803)Busy signal output
19	INT	(RA8803)Interrupt signal output
20	RST#	External reset input
*21	BL+	Backlight supply terminal(+)
*22	BL-	Backlight supply terminal(-)

TOLERANCE IF NOT SPECIFY ±0.5mm		SCALE NOT ON SCALE	UNIT IN mm	CLOVER CHINA DISPLAY (SHENZHEN) LTD.		SHEET 2 OF 3
REV.	REVISION RECORD	DATE	CUSTOMER	APPROVED		
00	1st ISSUE	15 MAR 12	CUSTOMER	MODEL NO. ZCV240160M		
			AGENT	TITLE: PINOUT & BLOCK DIAGRAM		
				DRAWN BY: ZHOU.H.Y DATE :15 MAR 12		
				CHECKED BY : Alex S. DATE :15 MAR 12		
			CUSTOMER REF.	OUR REF. X4940	APPROVED BY: <i>[Signature]</i> DATE 23/3/12	

1. General specification  
Display mode

- : 240 X 160 dots, TAB graphic LCD module
- STN negative blue mode
- : 4-bit of 8-bit parallel
- : 1/160 duty , 1/13 bias

Interface  
Duty

2. Electrical specification

- Supply voltage for logic(VDD) : 5.0V
- Input voltage for LCD(VEE) : 25V~28V
- Contrast adjustment for LCD(VLCD) : 22V~24V

3. Mechanical specification

- DOT size[mm] : 0.22(L)x0.22(W)
- DOT pitch[mm] : 0.24(L)x0.24(W)
- Viewing area[mm] : 61.6(L)x42.5(W)
- Module dimension[mm] : 71.1(L)x51.6(W)x10.0MAX(H)

4. Backlight specification

- Backlight color : White
- Backlight type : Side-lited LED backlight
- Backlight voltage(VBL) : 3.1V@60mA

TOLERANCE IF NOT SPECIFY ±0.5mm		SCALE NOT ON SCALE	UNIT IN mm	CLOVER CHINA DISPLAY (SHENZHEN) LTD.		SHEET 3 OF 3
REV.	REVISION RECORD			CUSTOMER	APPROVED	MODEL NO. ZCV240160M
00	1st ISSUE		DATE 15 MAR 12	STANDARD		TITLE: SPECIFICATION
				AGENT	APPROVED	DRAWN BY: ZHOU.H.Y DATE :15 MAR 12
				CUSTOMER REF.	OUR REF. X4940	CHECKED BY : Alex Song DATE :15 MAR 12
						APPROVED BY: <i>[Signature]</i> DATE : 15/3/12