Display mode	:	16 characters x 2 lines LCD module
Interface	:	4-bit or 8-bit parallel
Driving method	:	1/16 duty, 1/5 bias
Controller IC	:	Sitronix ST7066U or equivalent For the detailed information, please refer to IC specifications.

MECHANICAL DIMENSIONS

Item	Dimension		Unit	Item	Dimension		Unit
Outline Dimension	84.0(L)x44.0(W)x (H1/H2)		mm	Character Pitch	3.53(L)x5.92(W)		mm
Viewing Area	61.0(L)x15.8(W)		mm	Dot Size	0.55(L)x0.65(W)		mm
Character Size	2.95(L)x5.55(W)		mm	—	—		—
No Backlight (N)	H1	5.0	mm	Side Backlight (L)	H1	8.0	mm
	H2	9.1	mm		H2	12.1	mm
EL Backlight (E)	H1	—	mm	Array Backlight (M)	H1	8.0	mm
	H2	—	mm		H2	12.1	mm

CONNECTOR PIN ASSIGNMENT

Pin No.	Symbol	Function	Pin No.	Symbol	Function
*1	BL+	Supply voltage for backlight (+VE)	9	DB_0	Data Bus Line
*2	BL-	Supply voltage for backlight (-VE)	10	DB_1	Data Bus Line
3	V_{SS}	Ground	11	DB_2	Data Bus Line
4	V_{DD}	Supply voltage for logic	12	DB_3	Data Bus Line
5	V0	Input voltage for LCD	13	DB_4	Data Bus Line
6	RS	Register Select Input	14	DB_5	Data Bus Line
7	R/W	Read/Write	15	DB_6	Data Bus Line
8	E	Enable Signal	16	DB_7	Data Bus Line

(*)NOTE : Pin 1 , 2 are used for backlight version only

Represented by:

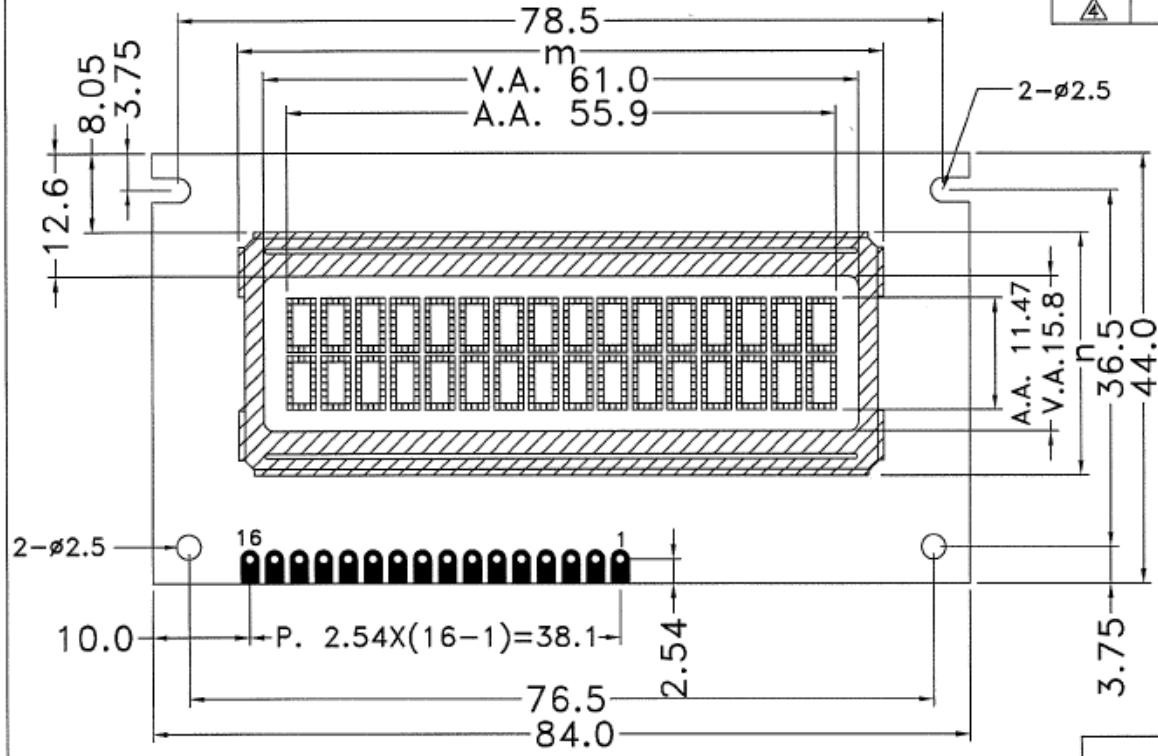
first FC components

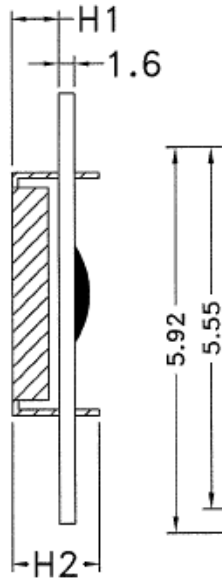
FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)

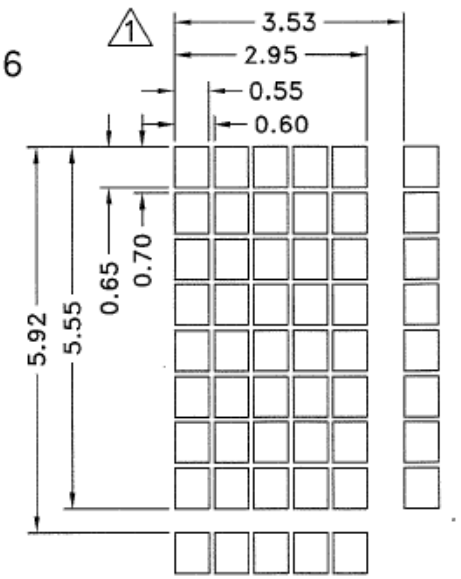
T. +39 0332 1888005 web: www.first-components.com

COUNTER DRAWING OF MODULE DIMENSION

MARK	REASON	PREPARED	DATE
1	Change IC & LCD dot size	Timmy	17 MAR 08
2	Modify pinout	Timmy	06 MAR 09
3	Change backlight current	Timmy	07 DEC 09
4			







SCALE 10 : 1

Model	H1	H2	m	n
No Backlight (N)	5.0	9.1	66.2	25.0
Array Backlight (M)	8.0	12.1	77.2	24.6
Side lited Backlight (L)	8.0	12.1	77.2	24.6

first FC components

TOLERANCE IF NOT SPECIFY ±0.5mm	SCALE N.T.S.	UNIT IN mm	CLOVER DISPLAY LTD. (HK)	SHEET 1 OF 3

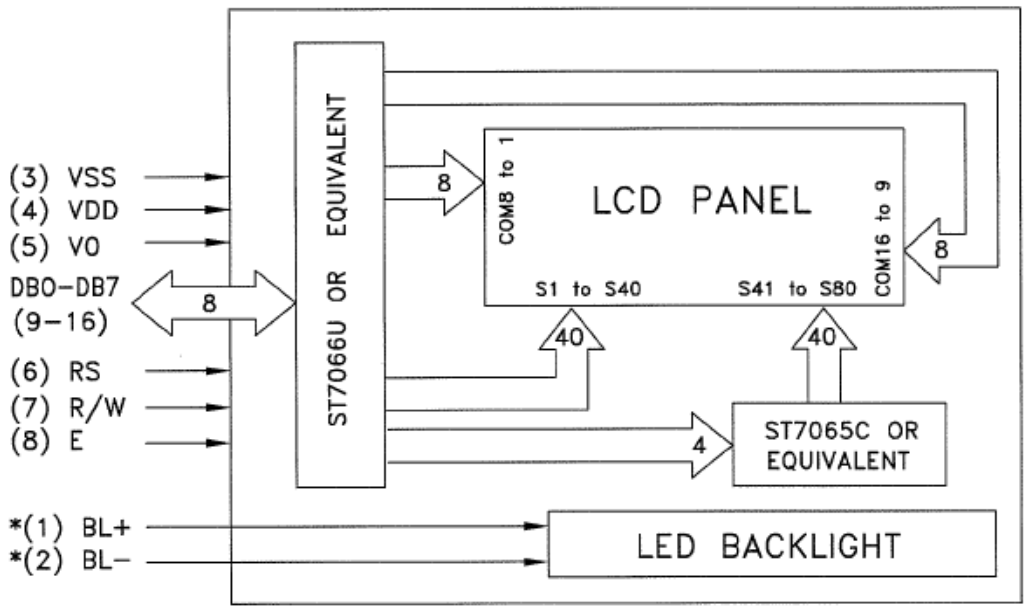
REV.	REVISION RECORD	DATE
00	1ST ISSUE	23 AUG 07
01	Change IC & LCD dot size	17 MAR 08
02	Modify pinout	06 MAR 09
03	Change backlight current	07 DEC 09

CUSTOMER STANDARD	APPROVED	MODEL NO. CV4162H	
		TITLE: MODULE DIMENSION	
AGENT	APPROVED	DRAWN BY: Fan	DATE:07 DEC 09
		CHECKED BY:	DATE: 07 DEC 09
CUSTOMER REF.	OUR REF. X4406	APPROVED BY:	DATE: 7/12/08

CLOVER DISPLAY LTD.

CV4162H

COUNTER DRAWING OF PIN OUT & BLOCK DIAGRAM



1 2

PIN NO.	SYMBOL	FUNCTION
*1	BL+	Supply voltage for backlight (+VE)
*2	BL–	Supply voltage for backlight (–VE)
3	VSS	Ground
4	VDD	Supply voltage for logic
5	VO	Input voltage for LCD
6	RS	Register select input
7	R/W	Read/write
8	E	Enable signal
9	DB0	Data bus line
10	DB1	
11	DB2	
12	DB3	
13	DB4	
14	DB5	
15	DB6	
16	DB7	

(*)NOTE : Pin 1 , 2 are used for backlight version only

TOLERANCE IF NOT SPECIFY ±0.5mm	SCALE N.T.S.	UNIT IN mm	CLOVER DISPLAY LTD. (HK)	SHEET 2 OF 3

REV.	REVISION RECORD	DATE
00	1ST ISSUE	23 AUG 07
01	Change IC & LCD dot size	17 MAR 08
02	Modify pinout	06 MAR 09
03	Change backlight current	07 DEC 09

CUSTOMER STANDARD	APPROVED	MODEL NO. CV4162H	
		TITLE: PIN OUT & BLOCK DIAGRAM	
AGENT	APPROVED	DRAWN BY: Fan	DATE:07 DEC 09
		CHECKED BY:	DATE: 07 DEC 09
CUSTOMER REF.	OUR REF. X4406	APPROVED BY:	DATE: 7/12/09