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

CUSTOMER : _____

MODULE NO.: WH1602Y

General Specification

Item	Dimension	Unit
Number of Characters	16 characters x 2Lines	–
Module dimension	122.0 x 44.0 x 13.6 (MAX)	mm
View area	99.0 x 24.0	mm
Active area	94.2 x 20.0	mm
Dot size	0.92 x 1.1	mm
Dot pitch	0.97 x 1.16	mm
Character size	4.8 x 9.22	mm
Character pitch	5.96 x 10.78	mm

Duty	1/16
View direction	12 o'clock
Backlight Type	LED, High light Green

first FC components

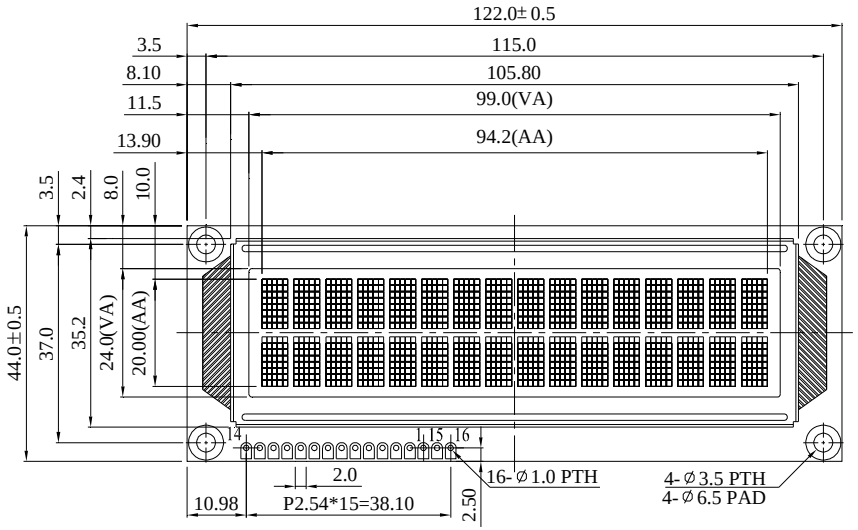
Absolute Maximum Ratings

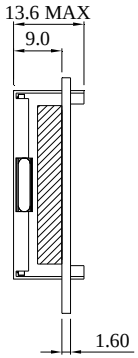
Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_{IN}	-0.3	—	V_{DD}+0.3	V
Supply Voltage For Logic	V_{DD}-V_{SS}	-0.3	—	5.5	V
Supply Voltage For LCD	V_{DD}-V_0	V_{SS} -0.3	—	V_{SS} +7.0	V

Interface Pin Function

Pin No.	Symbol	Level	Description
1	V_{SS}	0V	Ground
2	V_{DD}	5.0V	Supply Voltage for logic
3	VO	(Variable)	Contrast Adjustment
4	RS	H/L	H: DATA, L: Instruction code
5	R/W	H/L	H: Read(MPU→Module) L: Write(MPU→Module)
6	E	H,H→L	Chip enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	Vee	—	Negative Voltage Output
16	K	—	LED -

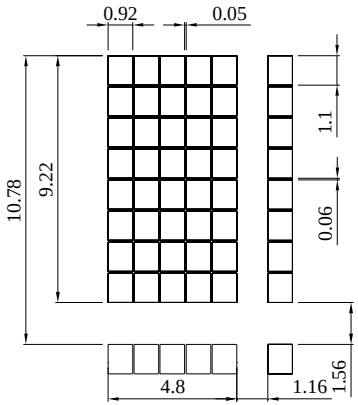
Contour Drawing & Block Diagram





LED B/L

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RS
5	R/$\overline{W}$
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	Vee
16	K



DOT SIZE

SCALE 5/1

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

first FC components