Mechanical Data

Item	Standard Value	Unit
Module Dimension	85.0x32.6	mm
Viewing Area	66.0x16.0	mm
Mounting hole	79.0x25.2	mm
Character Size	2.96x5.56	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	7.0	V
Input Voltage	VI	-0.3	---	VDD	V

Note：VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition		Standard Value			Unit
				min.	typ.	max.	
Input Voltage	VDD	VDD=+5V		4.7	5.0	5.3	V
Supply Current	IDD	VDD=5V		---	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C		---	---	5.2	V
		0°C		---	---	4.2	
		25°C		---	3.8	---	
		50°C		3.5	---	---	
		70°C		3.2	---	---	
LED Forward Voltage	VF	25°C		---	4.2	4.6	V
LED Forward Current	IF	25°C	Array	---	100	---	mA
			Edge	---	20	40	
EL Power Supply Current	IEL	Vel=110VAC;400Hz		---	---	5.0	mA

Display Character Address Code:

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F

Feature

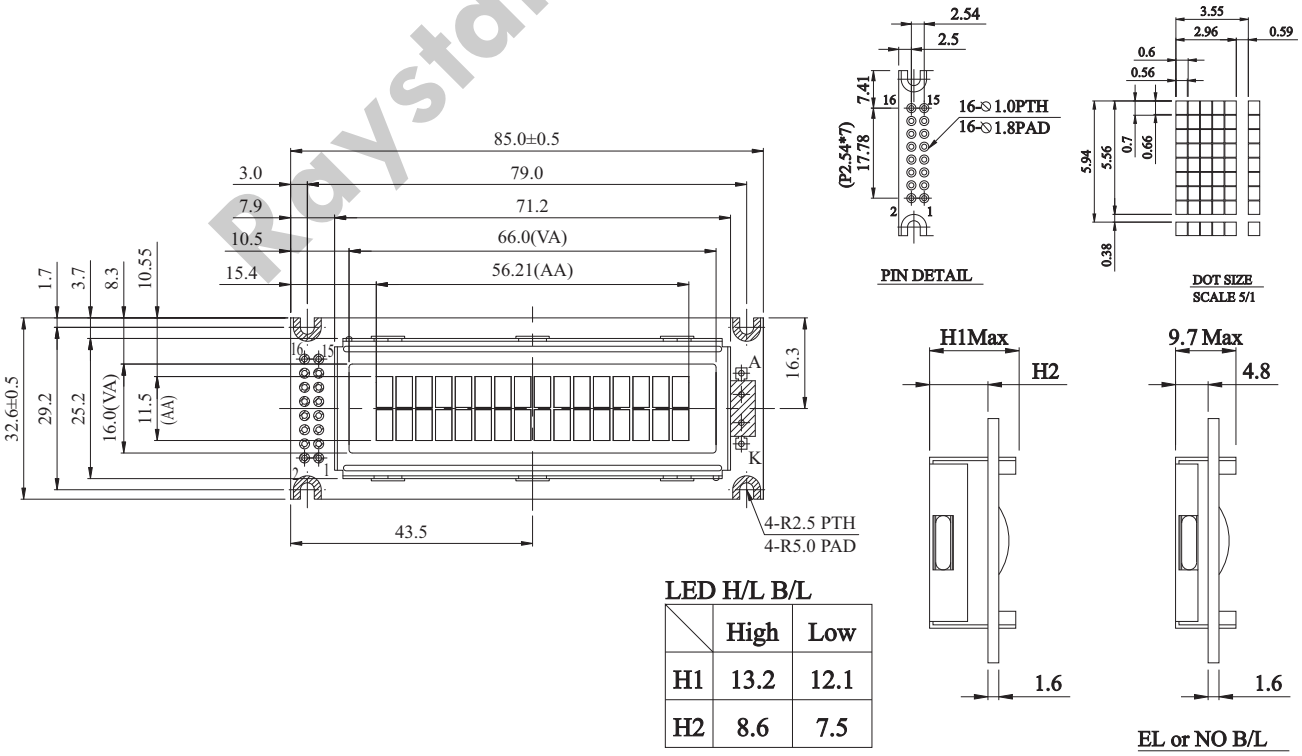
1. 5x8 dots includes cursor
2. Built-in controller (ST 7066 or Equivalent)
3. +5V power supply
4. 1/16 duty cycle
5. LED can be driven by pin1,pin2, or A and K
6. N.V. optional for +3V power supply
7. Optional:smaller character size (2.95x4.35mm)

Pin NO.	Symbol	Function
1	Vss	GND
2	Vdd	Power supply (+5V)
3	Vo	Contrast Adjustment
4	RS	H/L Register select signal
5	R/$\overline{W}$	H/L Read / write signal
6	E	H→L 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	A/Vee	Power supply for B/L +
16	K	Power supply for B/L -

Character type

RC1602F Character 16x2 dots

Dimension drawing



LED H/L B/L

	High	Low
H1	13.2	12.1
H2	8.6	7.5

Raystar Optronics, Inc.