



### PIN CONNECTIONS (CN1、CN2)

Pin	Symbol	Level	Function
1	V <sub>SS</sub>	0V	GND
2	V <sub>DD</sub>	+5V	Power supply for logic
3	V <sub>O</sub>	-	Operating voltage for LCD
4	/WR	L	Write signal
5	/RD	L	Read signal
6	/CS	H/L	Chip select,Active L
7	A0	H/L	“L” Instruction code “H” Data
8	/REST	L	Reset signal,active”L”
9	DB0	H/L	Data bus line
16	DB7		
17	NC/ LED+	-/ +5V	No connection/ Power supply for LED+
18	VEE	-	Negative Voltage output
19	INT	-	Programmable interrupt
20	BUSY	-	Busy signal
21	LEDA	+5V	Power supply for LED
22	LEDK	0V	

NOTES:1.Built-in controller(RA8803)

2.LED can be driven by pin 17 or pin 21  
and pin 22

### MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	160.0X107.0X11.2	mm
Viewing Area (W x H)	122.0 X92.0	mm
Dot Pitch (W x H)	0.36X0.36	mm
Dot Size (W x H)	0.33X0.33	mm

### ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V <sub>DD</sub> -V <sub>SS</sub>	0	6.5	V
Supply Voltage(LCD)	V <sub>DD</sub> - V <sub>O</sub>	0	28	V
Input Voltage	V <sub>I</sub>	0	V <sub>DD</sub>	V
Operating Temp	T <sub>OPR</sub>	-20	70	°C
Storage Temp	T <sub>STG</sub>	-30	80	°C

### ELECTRICAL CHARACTERISTICS (V<sub>DD</sub>=5.0V, Ta=25°C)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V <sub>IH</sub>	0.5V <sub>DD</sub>	-	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	0	-	0.2V <sub>DD</sub>	V
Output High Voltage	V <sub>OH</sub>	V <sub>DD</sub> -0.4	-	V <sub>DD</sub>	V
Output Low Voltage	V <sub>OL</sub>	0	-	V <sub>SS</sub> +0.4	V
Supply Current	I <sub>DD</sub>	-	100	-	mA
LCD Driving Voltage	V <sub>DD</sub> - V <sub>O</sub>	-	23	-	V

### LED BACKLIGHT SPECIFICATION (Ta=25°C)

Item	Forward Voltage	Forward Current
WHITE	3.1V	180mA