



ABSOLUTE MAXIMUM RATINGS

| Item | Symbol | Min. | Max. | Unit |
|------------------------|------------------------------------|------|-----------------------|------|
| Supply Voltage (Logic) | V _{DD} - V _{SS} | -0.3 | 5.5 | V |
| Supply Voltage (LED) | V _{LED} - V _{SS} | -0.3 | 6.0 | V |
| Input Voltage | V _I | -0.3 | V _{DD} + 0.3 | V |
| Operating Temp. | T _{opr} | -20 | 70 | °C |
| Storage Temp. | T _{stg} | -30 | 80 | °C |

MECHANICAL DATA

| Item | Nominal Dimensions | Unit |
|-------------------------|--------------------|------|
| Module Size (W x H x T) | 123.0 x 70.0 x 9.5 | mm |
| Viewing Area (W x H) | 97.6 x 56.6 | mm |
| Active Area (W x H) | 95.04 x 53.856 | mm |
| Dot Pitch (W x H) | 0.066 x 0.198 | mm |
| Weight | Approx. 75 | g |

ELECTRICAL CHARACTERISTICS (V_{DD}=3.3V to 5.5V)

| Item | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|------------------------|------------------|-------------------------------|----------------------|------|-----------------|------|
| Input High Voltage | V _{IH} | -- | 2.0 | -- | V _{DD} | V |
| Input Low Voltage | V _{IL} | -- | 0 | -- | 0.8 | V |
| Output High Voltage | V _{OH} | I _{OH} = -0.1mA | V _{DD} -0.2 | -- | V _{DD} | V |
| Output Low Voltage | V _{OL} | I _{OL} = 0.1mA | 0 | -- | 0.2 | V |
| Supply Current (Logic) | I _{DD} | V _{DD} =3.3V to 5.5V | -- | 45 | 55 | mA |
| Supply Current (LED) | I _{LED} | V _{LED} = 5.0V | -- | 80 | 100 | mA |

PIN CONNECTIONS (CN1/CN2)

| Pin | Symbol | Level | Function |
|-----|------------------|--------------|---|
| 1 | V _{SS} | 0V | GND |
| 2 | V _{DD} | 3.3V to 5.5V | Power supply |
| 3 | V _{LED} | 3.3V to 5.5V | Power supply for LED B/L driver |
| 4 | RS | H/L | Data or command selection H: Command L: Display data |
| 5 | /WR (R/W) | H/L | Write signal for 8080 MCU. R/W signal for 6800 MCU. |
| 6 | /RD (E) | H/L | Read signal for 8080 MCU. Enable signal for 6800 MCU. |
| 7 | /CS | L | Chip selection signal. Active "L". |
| 8 | /RST | L | Reset signal. Active "L". |
| 9 | /WAIT | L | Wait signal output. Active "L". Outputs "L" when RA8875 is busy. |
| 10 | /INT | L | Interrupt signal output to indicate the status of RA8875. Active "L". |
| 11 | DB0 | H/L | Data bus for 8-bit data bus mode. Low order data bus for 16-bit data bus mode. |
| 12 | DB1 | H/L | |
| 13 | DB2 | H/L | |
| 14 | DB3 | H/L | |
| 15 | DB4 | H/L | |
| 16 | DB5 | H/L | |
| 17 | DB6 | H/L | |
| 18 | DB7 | H/L | |
| 19 | V _{SS} | 0V | GND |
| 20 | V _{SS} | 0V | GND |

BLOCK DIAGRAM

