

## 一、特点

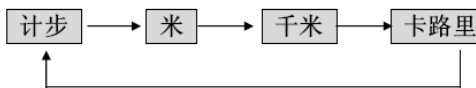
- 5 位 LCD 显示
  - 1) 计步数
  - 2) 测量距离 (m & Km)
  - 3) 测量卡路里
  - 4) 设定步距 & 体重
  - 5) 公英制邦定选择 (P1<4>接地为英制, 悬空为公制)
- 工作电压: 1.5V

## 二、功能描述

### 3 键版本:

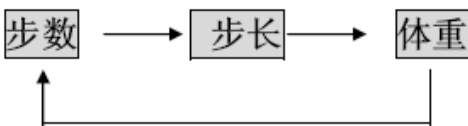
**MODE**、**RESET** & **ADJUST** 键

- 按 **MODE** 键改变模式:



- 计步从 0 到 99999.

- 按 **ADJUST** 键改变模式:



- 步长范围: 30 到 120cm @5cm Icon 显示“L”  
10 到 50in @2in Icon 显示“ln”
- 体重范围: 30 to 150Kg @5Kg Icon 显示“l”  
70 to 400Lb @2in Icon 显示“Lb”

- 按 **MODE** 键来设定步长和称重。

- 按 **RESET** 键来复位计步。

### 其它:

- 上电后, 默认值: 步距为 70CM, 体重是 60KG。
- 脉冲抖动, 当计步频率达到 4 步/秒时, 不计步数。
- 当速度低于 140 步/分, 正常计算距离&卡路里。

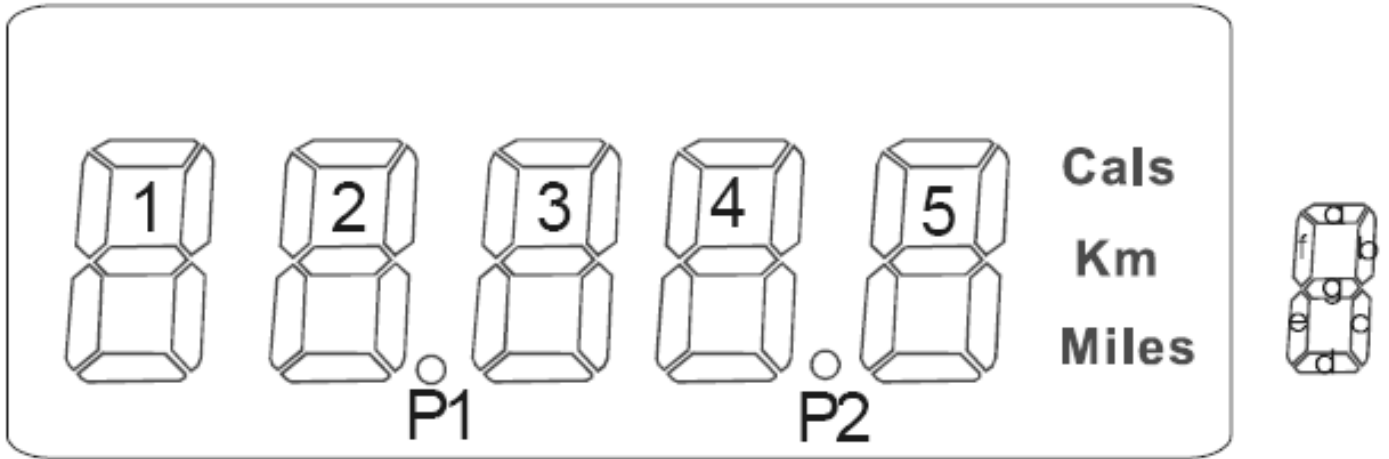


## SC4032 (文件编号: S&CIC0659)

## 三键多功能计步器 (带高频距和体重功能)

- 当速度大于 140 步/分，计 30% 的距离&卡路里。
- 自动关机，约 1 分 40 秒无任何操作则自动关机。

### 三、 LCD 逻辑图

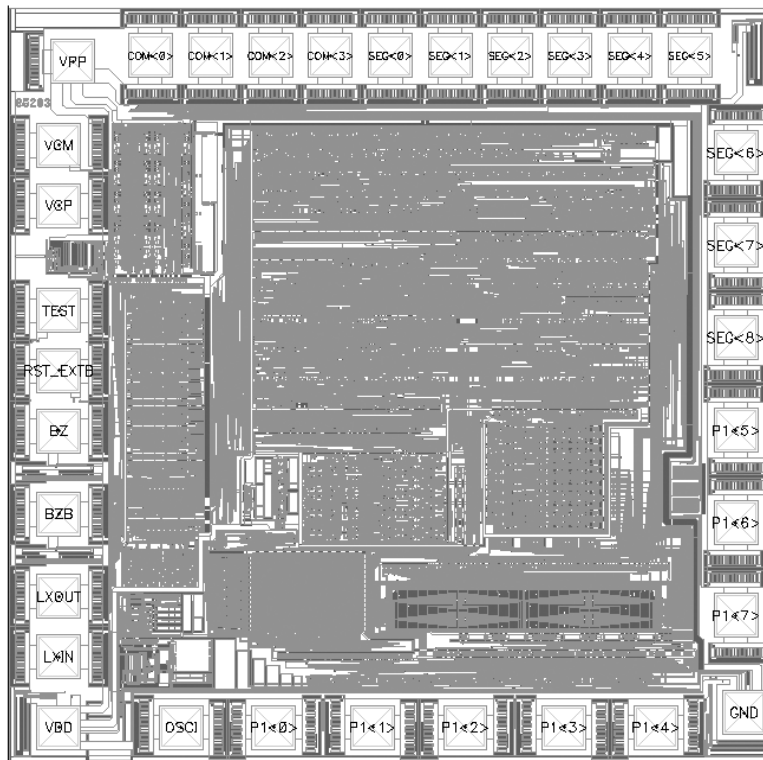


3V      1/4Duty      1/3Bias

| LCD Pin | 1   | 2    | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| IC Pin  | S11 | S10  | S9 | S8 | S7 | S6 | S5 | S4 | S3 | S2 | S1 | S0 | C3 | C2 | C1 | C0 |
|         | P2  | cals |    | 5a |    | 4a |    | 3a |    | 2a |    | 1a | C3 |    |    |    |
|         |     | km   | 5b | 5f | 4b | 4f | 3b | 3f | 2b | 2f | 1b | 1f |    | C2 |    |    |
|         |     | mile | 5g | 5e | 4g | 4e | 3g | 3e | 2g | 2e | 1g | 1e |    |    | C1 |    |
|         | P1  |      | 5c | 5d | 4c | 4d | 3c | 3d | 2c | 2d | 1c | 1d |    |    |    | C0 |



## 四、 PAD 位图



The IC substrate should be connected to **VSS** in the PCB layout artwork

| 序号 | 名称       | X       | Y       | 序号 | 名称     | X       | Y       |
|----|----------|---------|---------|----|--------|---------|---------|
| 1  | VPP      | -655.00 | 665.00  | 18 | P1<7>  | 713.60  | -473.05 |
| 2  | VCM      | -684.00 | 493.00  | 19 | P1<6>  | 713.60  | -282.95 |
| 3  | VCP      | -684.00 | 369.30  | 20 | P1<5>  | 713.60  | -92.85  |
| 4  | TEST     | -684.00 | 153.00  | 21 | SEG<8> | 713.60  | 97.25   |
| 5  | RST_EXTB | -684.00 | 29.30   | 22 | SEG<7> | 713.60  | 287.35  |
| 6  | BZ       | -684.00 | -94.40  | 23 | SEG<6> | 713.60  | 477.45  |
| 7  | BZB      | -684.00 | -264.60 | 24 | SEG<5> | 618.60  | 676.50  |
| 8  | LXOUT    | -684.00 | -434.80 | 25 | SEG<4> | 494.90  | 676.50  |
| 9  | LXIN     | -684.00 | -558.50 | 26 | SEG<3> | 371.20  | 676.50  |
| 10 | VDD      | -684.00 | -703.50 | 27 | SEG<2> | 247.50  | 676.50  |
| 11 | OSCI     | -431.50 | -703.50 | 28 | SEG<1> | 123.80  | 676.50  |
| 12 | P1<0>    | -240.30 | -703.50 | 29 | SEG<0> | 0.10    | 676.50  |
| 13 | P1<1>    | -36.40  | -703.50 | 30 | COM<3> | -123.60 | 676.50  |
| 14 | P1<2>    | 154.80  | -703.50 | 31 | COM<2> | -247.30 | 676.50  |
| 15 | P1<3>    | 358.70  | -703.50 | 32 | COM<1> | -371.00 | 676.50  |
| 16 | P1<4>    | 548.80  | -703.50 | 33 | COM<0> | -494.70 | 676.50  |
| 17 | GND      | 730.40  | -673.00 |    |        |         |         |

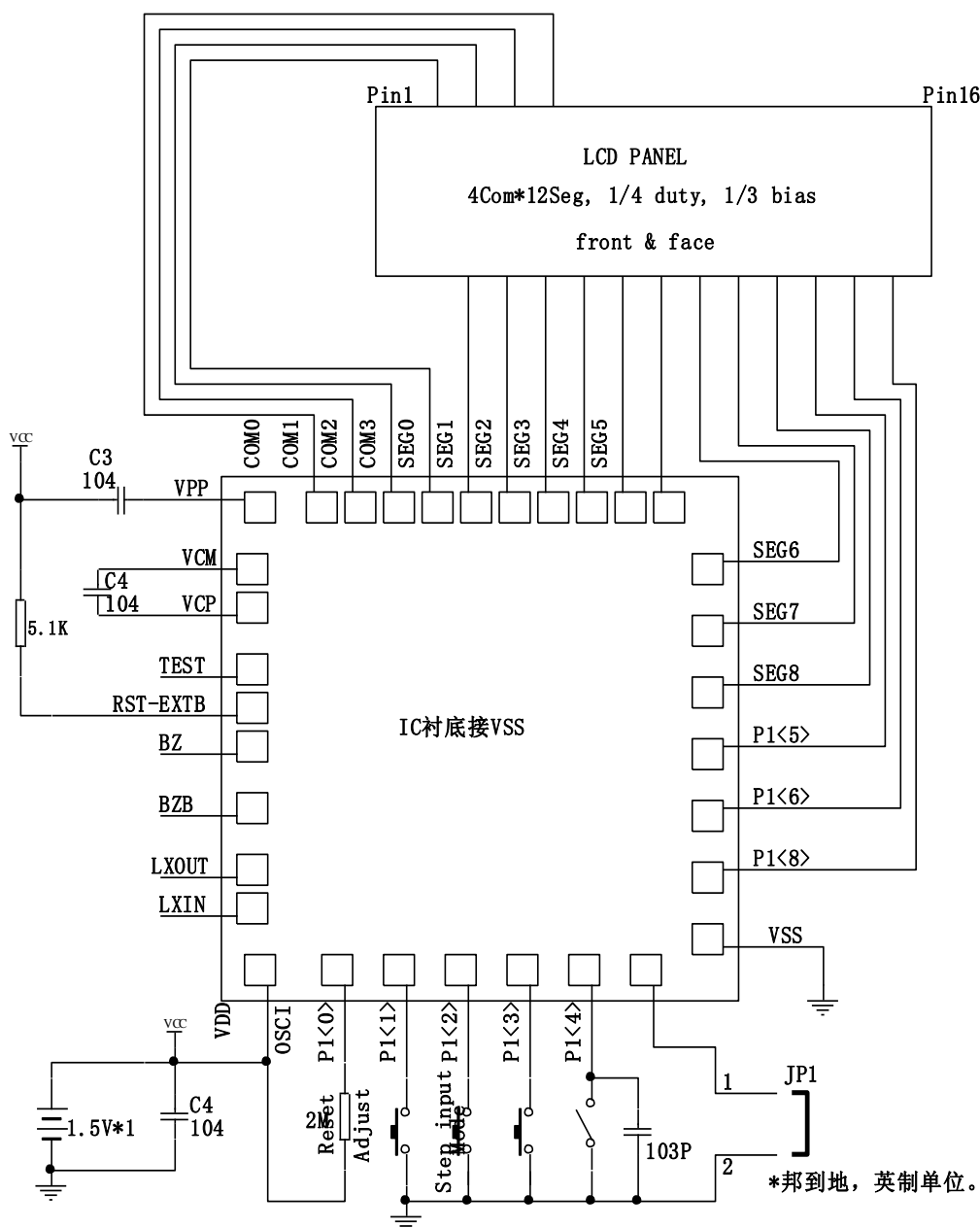


## 五、 IC 脚位说明

| 名称       | I/O   | 功能描述  |
|----------|-------|---|
| VPP      | Power | Voltage doublet supply pin.                             |
| COM<0>   | O     | LCD Common output.                                      |
| COM<1>   | O     | LCD Common output.                                      |
| COM<2>   | O     | LCD Common output.                                      |
| COM<3>   | O     | LCD Common output.                                      |
| SEG<0>   | O     | LCD Segment output.                                     |
| SEG<1>   | O     | LCD Segment output.                                     |
| SEG<2>   | O     | LCD Segment output.                                     |
| SEG<3>   | O     | LCD Segment output.                                     |
| SEG<4>   | O     | LCD Segment output.                                     |
| SEG<5>   | O     | LCD Segment output.                                     |
| SEG<6>   | O     | LCD Segment output.                                     |
| SEG<7>   | O     | LCD Segment output.                                     |
| SEG<8>   | O     | LCD Segment output.                                     |
| P1<5>    | I/O   |   |
| P1<6>    | I/O   |   |
| P1<8>    | I/O   |   |
| VSS      | Power | Negative power supply pin.                              |
| P1<4>    | I/O   | I/O port. Also P1<4> can be used as wake-up input pins. |
| P1<3>    | I/O   | I/O port. Also P1<3> can be used as wake-up input pins. |
| P1<2>    | I/O   | I/O port. Also P1<2> can be used as wake-up input pins. |
| P1<1>    | I/O   | I/O port. Also P1<1> can be used as wake-up input pins. |
| P1<0>    | I/O   | I/O port. Also P1<0> can be used as wake-up input pins. |
| OSCI     | I     | Oscillator input.                                       |
| VDD      | Power | Positive power supply pin.                              |
| LXIN     | I     | Low frequency oscillator input.                         |
| LXOUT    | O     | Low frequency oscillator output.                        |
| BZB      | O     | Piezo buzzer driving.                                   |
| BZ       | O     | Piezo buzzer driving.                                   |
| RST-EXTB | I     | External reset.   |
| TEST     | I     | For test purpose.                                       |
| VCP      | I     | Voltage doubler capacitor positive.                     |
| VCM      | I     | Voltage doubler capacitor positive.                     |



#### 六、 电路原理图



注：P1<3>脚 103P 电容为触发灵敏度调节。