

## 十二位电子表

### FEATURES

- Single-chip CMOS construction
- Drives 12-digital triplexed LCD
- Colon display
- 32,768Hz±20ppm crystal frequency
- On chip oscillator
- Single 3V battery operation
- Low power dissipation
- Touch-tone signal

### FUNORIONS

- 6 functions: Month, Date, Day-of-Weck, Hour, Minute, Second
- 6-digit chronograph
- Split function of chronograph
- User selectable 12-hour/24-hour format
- 4-year calendur
- Chime on every hour
- 3-switch sequential operation

### ABSOLUTE MAXIMUM RATINGS

| Characteristics       | Symbol | Value       | Unit |
|-----------------------|--------|-------------|------|
| Supply voltage        | VCC    | -0.3 ~ +2.0 | V    |
| Operating temperature | Toper  | -20 ~ +70   | °C   |
| Storage temperature   | Tsto   | -25 ~ +125  | °C   |

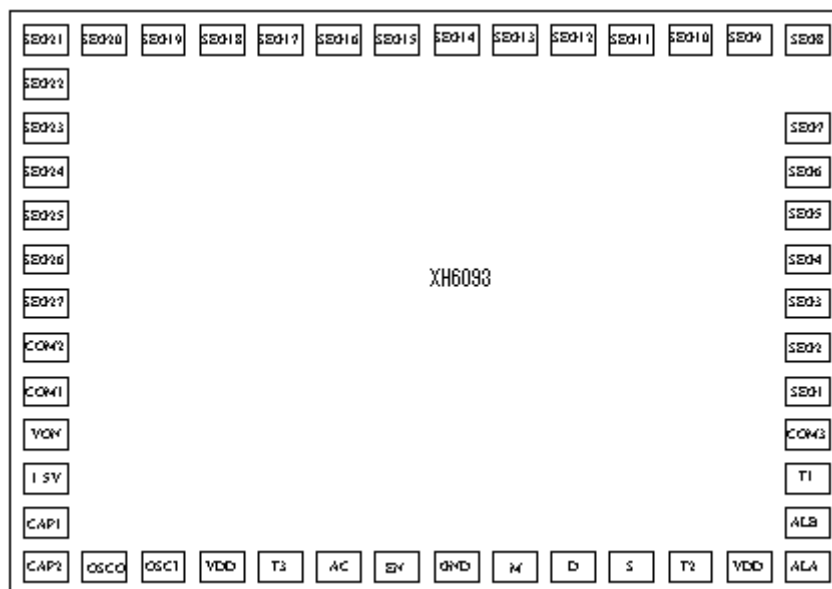
### ELECTRICAL CHARACTERISTICS

(Ta=25°C, VDD=0V, VCC=3.0V unless otherwise apesified)

| Characteristics                       | Symbol                            | Test condition          | Min | Typ    | Max | Unit |
|---------------------------------------|-----------------------------------|-------------------------|-----|--------|-----|------|
| Operating voltage                     | VCC                               |                         | 2.4 | 3.0    | 3.6 | V    |
| Display voltage                       | VDD                               |                         | 3.6 | 4.5    | 5.4 | V    |
| Oscillator source voltage             | Vout                              |                         | -   | -      | 2.7 | V    |
| Supply current                        | Icc                               | Without load            | -   | 1.2    | 2.5 | uA   |
| Alarm drive current                   | I <sub>ALE</sub> I <sub>ALA</sub> | Vcc=0.5V(Both dfrction) | 0.5 | 1      | -   | mA   |
| Oscillator frequency                  | Fosc                              |                         | -   | 32.768 | -   | Hz   |
| Oscillator inout and output capacitor | Cin Cout                          |                         | -   | 20     | -   | pF   |

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### PAD DIAGRAM(IC 衬底接 VSS)



★: 建议邦定时, 请调校邦机到适当超声焊接压力 (推荐压力调校值在 15g~18g 左右为宜)!

| Pad No. | Pad Name | X       | Y      | Pad No. | Pad Name | X       | Y       | Pad No. | Pad Name | X      | Y       |
|---------|----------|---------|--------|---------|----------|---------|---------|---------|----------|--------|---------|
| 1       | CAP2     | 10.00   | 10.00  | 18      | SEG1     | 1465.00 | 497.80  | 35      | SEG18    | 365.00 | 1335.00 |
| 2       | OSCO     | 145.00  | 10.00  | 19      | SEG2     | 1465.00 | 607.80  | 36      | SEG19    | 255.00 | 1335.00 |
| 3       | OSCI     | 255.00  | 10.00  | 20      | SEG3     | 1465.00 | 717.80  | 37      | SEG20    | 145.00 | 1335.00 |
| 4       | VDD      | 365.00  | 10.00  | 21      | SEG4     | 1465.00 | 827.80  | 38      | SEG21    | 10.00  | 1335.00 |
| 5       | T3       | 475.00  | 10.00  | 22      | SEG5     | 1465.00 | 937.80  | 39      | SEG22    | 10.00  | 1222.50 |
| 6       | AC       | 585.00  | 10.00  | 23      | SEG6     | 1465.00 | 1047.80 | 40      | SEG23    | 10.00  | 1112.50 |
| 7       | EN       | 695.00  | 10.00  | 24      | SEG7     | 1465.00 | 1157.80 | 41      | SEG24    | 10.00  | 1002.50 |
| 8       | GND      | 805.00  | 10.00  | 25      | SEG8     | 1465.00 | 1335.00 | 42      | SEG25    | 10.00  | 892.50  |
| 9       | M        | 915.00  | 10.00  | 26      | SEG9     | 1335.00 | 1335.00 | 43      | SEG26    | 10.00  | 782.50  |
| 10      | D        | 1025.00 | 10.00  | 27      | SEG10    | 1245.00 | 1335.00 | 44      | SEG27    | 10.00  | 672.50  |
| 11      | S        | 1135.00 | 10.00  | 28      | SEG11    | 1135.00 | 1335.00 | 45      | COM2     | 10.00  | 562.50  |
| 12      | T2       | 1245.00 | 10.00  | 29      | SEG12    | 1025.00 | 1335.00 | 46      | COM1     | 10.00  | 452.50  |
| 13      | VDD      | 1355.00 | 10.00  | 30      | SEG13    | 915.00  | 1335.00 | 47      | VON      | 10.00  | 342.50  |
| 14      | ALA      | 1465.00 | 10.00  | 31      | SEG14    | 805.00  | 1335.00 | 48      | 1.5V     | 10.00  | 232.50  |
| 15      | ALB      | 1465.00 | 167.80 | 32      | SEG15    | 695.00  | 1335.00 | 49      | CAP1     | 10.00  | 122.50  |
| 16      | T1       | 1465.00 | 277.80 | 33      | SEG16    | 585.00  | 1335.00 |         |          |        |         |
| 17      | COM3     | 1465.00 | 387.80 | 34      | SEG17    | 475.00  | 1335.00 |         |          |        |         |

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## APPLICATION DIAGRAM

