



东莞市琪芯电子有限公司

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DL6048

DL6048 温度手表

一、功能说明:

Multifunctional CMOS IC For Electronic Watch With Temperature Measurement Function

The DL6018 is a CMOS IC with functions of electronic watch, of thermometer °C/ °F with a range of measurement from -20°C up to +60°C (-4°F up to +140°F), alarm clock, stop watch, hourly audio signal, LCD with mark of month, date , days of week, Am, Pm, Alarm, °C, °F and colon.

FEATURES

- Control over Liquid Crystal Display (LCD) in four-level multiplexing mode;
- Colon display;
- Control of piezoelectric transducer
- Embedded-in-chip elements of quarts generator with operation frequency 32768 Hz, capacity, resistor and voltage doubler;
- Operation with one 3.0V battery, low consumption power;
- Circuits of contacts chatter suppression on button inputs;
- Protection against static electricity

FUNCTIONS

- 6 functions of counting time and calendar with readings of hours, minutes, seconds, months, dates, days of week;
- 6-bit stop-watch with counting discreteness one hundredth second;
- Alarm clock with function of repeat of signal every 5 minutes;
- Thermometer temperature measurement range: from -20 up to +60°C from -4 up to +140°F;
- User's choice of 12/24 hours time scale.

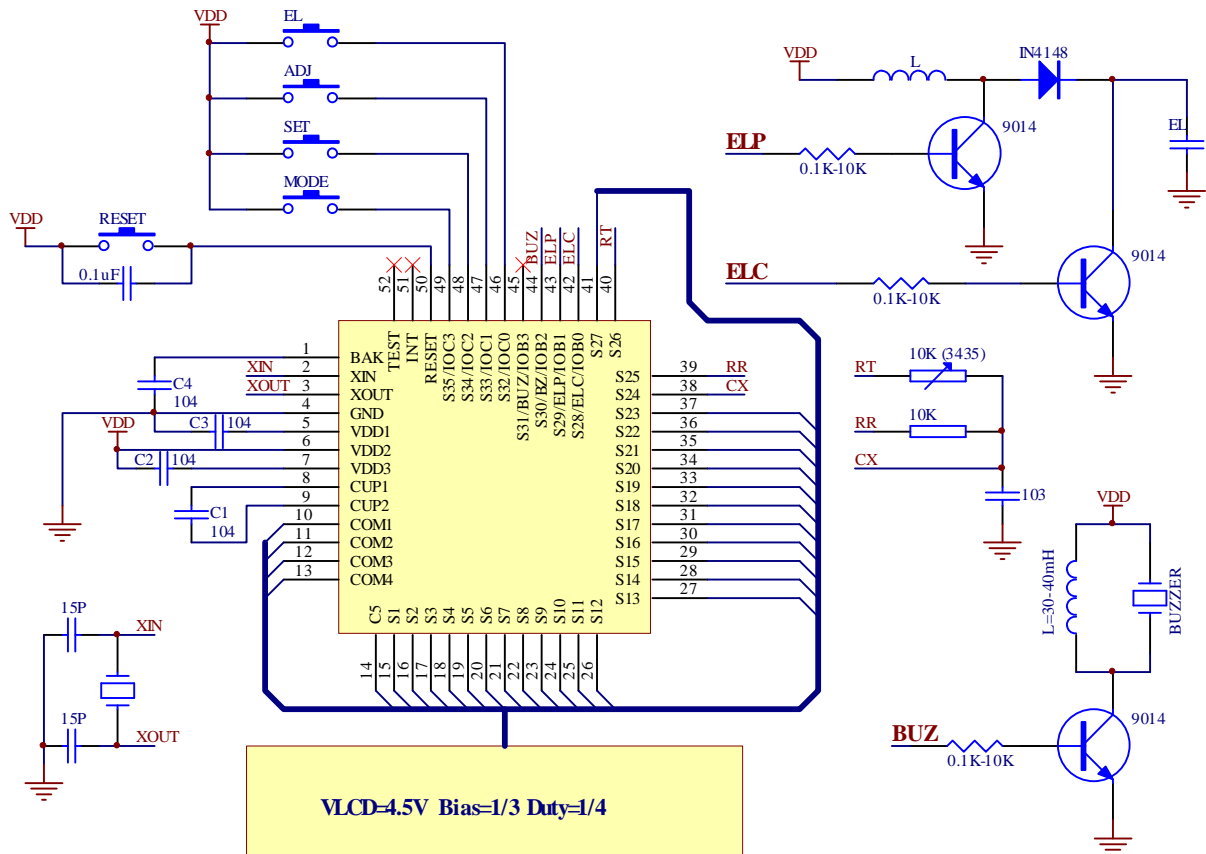
每日闹铃功能、EL 冷光功能(冷光时间为 3-3.5 秒)、秒表功能、开机上电时星期显示为“SU”、4 键操作、IC 静态电流 2UA 左右

二、显示效果:





三、 DL6048 温度表 IC 线路图:



IC 3V 供电，2 位英文点阵星期

玻璃接 IC C1-C5 S1--S23-S27

CAD 逻辑表 S1-S23-S27 应该是依序排下去 6PIN~28PIN 是 S1~S23
29PIN 是 S27



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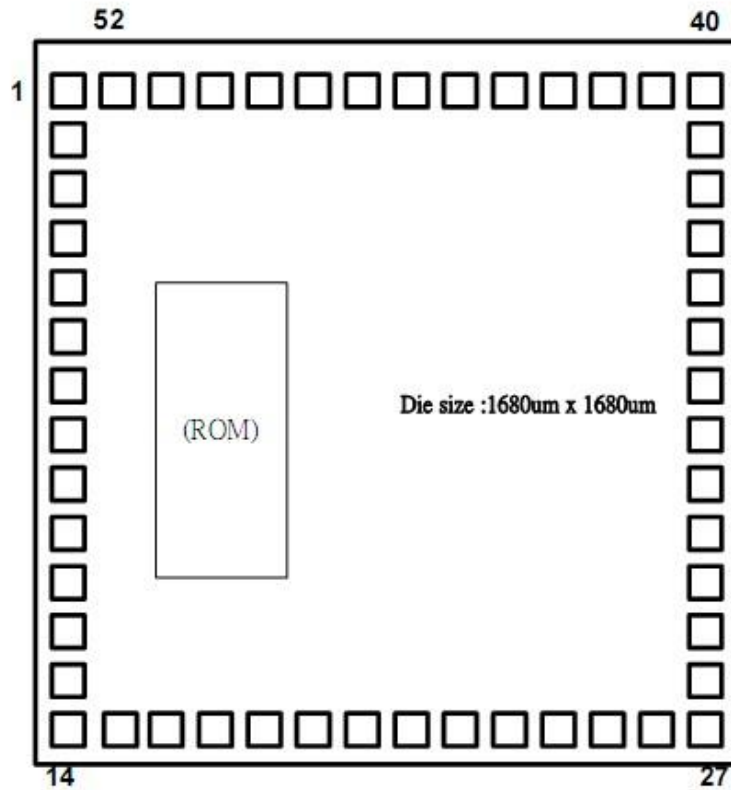
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四、IC PAD 图:

PAD DIAGRAM



The substrate of chip should be connected to GND.

XY 座标图:



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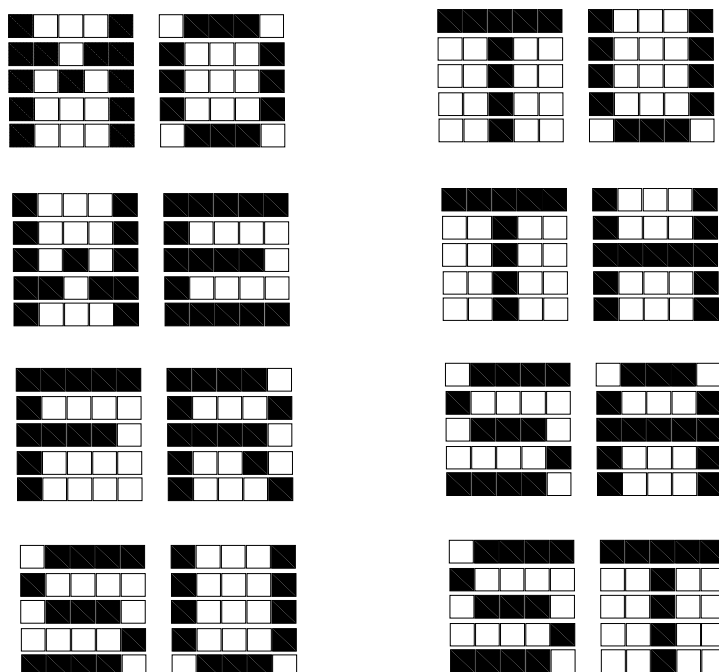


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PAD COORDINATE

No	Name	X	Y	No	Name	X	Y
1	BAK	77.5	1602.5	27	SEG13/K13	1602.5	77.5
2	XIN	77.5	1472.5	28	SEG14/K14	1602.5	207.5
3	XOUT	77.5	1357.5	29	SEG15/K15	1602.5	322.5
4	GND	77.5	1242.5	30	SEG16/K16	1602.5	437.5
5	VDD1	77.5	1127.5	31	SEG17	1602.5	552.5
6	VDD2	77.5	1012.5	32	SEG18	1602.5	667.5
7	VDD3	77.5	897.5	33	SEG19	1602.5	782.5
8	CUP1	77.5	782.5	34	SEG20	1602.5	897.5
9	CUP2	77.5	667.5	35	SEG21	1602.5	1012.5
10	COM1	77.5	552.5	36	SEG22	1602.5	1127.5
11	COM2	77.5	437.5	37	SEG23	1602.5	1242.5
12	COM3	77.5	322.5	38	SEG24/IOA1/CX	1602.5	1357.5
13	COM4	77.5	207.5	39	SEG25/IOA2/RR	1602.5	1472.5
14	COM5	77.5	77.5	40	SEG26/IOA3/RT	1602.5	1602.5
15	SEG1/K1	207.5	77.5	41	SEG27/IOA4/RH	1472.5	1602.5
16	SEG2/K2	322.5	77.5	42	SEG28/IOB1/ELC	1357.5	1602.5
17	SEG3/K3	437.5	77.5	43	SEG29/IOB2/ELP	1242.5	1602.5
18	SEG4/K4	552.5	77.5	44	SEG30/IOB3/BZB	1127.5	1602.5
19	SEG5/K5	667.5	77.5	45	SEG31/IOB4/BZ	1012.5	1602.5
20	SEG6/K6	782.5	77.5	46	SEG32/IOC1/KI1	897.5	1602.5
21	SEG7/K7	897.5	77.5	47	SEG33/IOC2/KI2	782.5	1602.5
22	SEG8/K8	1012.5	77.5	48	SEG34/IOC3/KI3	667.5	1602.5
23	SEG9/K9	1127.5	77.5	49	SEG35/IOC4/KI4	552.5	1602.5
24	SEG10/K10	1242.5	77.5	50	RESET	437.5	1602.5
25	SEG11/K11	1357.5	77.5	51	INT	322.5	1602.5
26	SEG12/K12	1472.5	77.5	52	TEST	207.5	1602.5

五、英文点阵星期效果图



六、LCD 图纸请查看 CAD 图纸文件