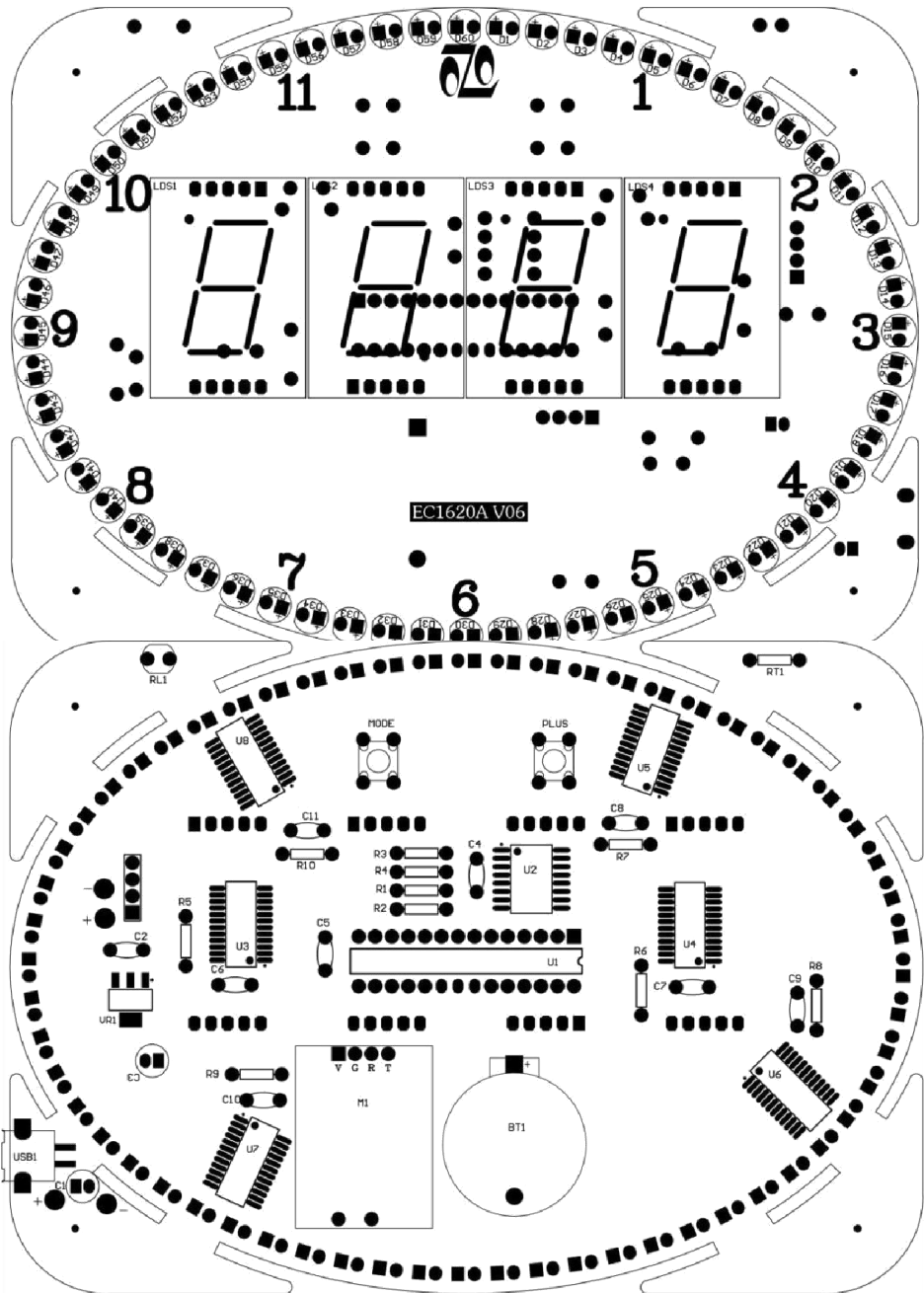


Name	Specification	Position	Quantity
Battery and battery holder	CR2032	BT1	1
Electrolytic capacitor	100uF	C1、C3	2
Monolithic capacitor	104	C2、C4~C11	9
LED	5MM	D1~D60	60
Digital tube	1 inch	LDS1~LDS4	4
Voice module (with speaker)	MP1622	M1	1
Resistance	1/8W 20KΩ	R1~R4	4
Resistance	1/8W 3KΩ	R5~R10	6
Thermistor	MF58 50K	RT1	1
Photosensitive resistor	5506	RL1	1
Kkey	5*5*14	S1、S2	2
IC	IAP15W413 AS	U1	1
IC	DS3231	U2	1
IC	TM1818	U3~U8	6
Regulator	AMS1117	VR1	1
USB seat	Micro USB	USB1	1
PCB	EC1620A_V06		1

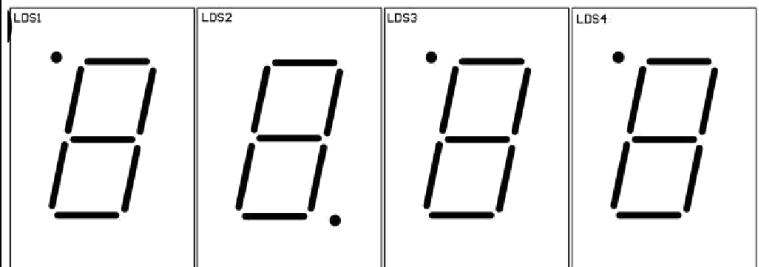


**Notice:**

1. When soldering the SMDs, the temperature can not too high, otherwise there is the risk of bad soldering.
2. Please note that the direction of LED, LED long legs for the positive.
3. The second digital tube's point is in the bottom, is different with the other three points.
4. RT1 is a thermistor, RL1 is a photosensitive resistor. And the length of the pin should be enough to extend out of the shell.
5. The speaker is connected to the 01 and 02 of the voice module and is glued to the lower right corner of the circuit board with a double-sided adhesive tape.
6. Please be sure to finish soldering the back side of the components and then soldering the digital tube.

Power: DC3V-DC5V  
 Working current: <250MA  
 Alarm current: <500mA  
 Due to the relatively large working current, please use the high quality 5V1A power supply.

Please look for the direction of digital tube:



**EC1620 electronic clock introduction:**

Using MCU to read the clock data in DS3231, shown on the digital tube and LED. Digital tube and LED using LED special constant current drive chip TM1818 to achieve the best display effect.

Using the voice control module to output sound, to achieve voice timekeeping and alarm function. Through the button can set the time, alarm clock and other functions.

**Method for downloading ringtone:**

With the data line voice broadcast module connected to the computer, the module would be equivalent to a U disk, a new folder (named according to the order of the number), then the file name for the 001 ring inside can be.

**Brief introduction of EC1620 key function:**

Hold down the MODE key, then press the PLUS key to switch LED display.

The power on default time display mode, press the MODE key to enter the "Year set" mode, and then press MODE button can turn into the "Month set" mode, "Day set" mode, "Hour set" mode, "Minute set" mode, "Second set" mode. In each mode can press the PLUS key to set.

In the time display mode long press the MODE key for 3 seconds into the "Hourly Chime Enable set" mode, press the MODE button can turn into "hourly chime star time set" mode, "hourly chime star time set" mode, "chime bell set" mode, "alarm 1 enable set" mode, "alarm 1 hour set" mode, "alarm 1 minute set" mode, "the length of alarm 1 time set" mode, "alarm 1 bell set" mode, "alarm 2 enable set" mode, "alarm 2 hour set" mode, "alarm 2 minute set" mode, "the length of alarm 2 time set" mode, "alarm 2 bell set" mode, "alarm 3 enable set" mode, "alarm 3 hour set" mode, "alarm 3 minute set" mode, "the length of alarm 3 time set" mode, "alarm 3 bell set" mode, "alarm 4 enable set" mode, "alarm 4 hour set" mode, "alarm 4 minute set" mode, "the length of alarm 4 time set" mode, "alarm 4 bell set" mode.

In the time display mode long press the MODE key more than 5 seconds into the "Volume Setting" mode, press the MODE button can turn into "light controlled enable set" mode, "Fahrenheit Celsius display switching" mode, "the temperature calibration" mode, "12/24 hour display set" mode, "time display set" mode, "LED auto switch display set" mode, "Digital tube brightness setting" mode, "LED brightness setting" mode.

In all of the above mode, you can press the PLUS key to set, long press the PLUS key can be quickly set.