

2 Sets DIY SMD SMT Components Welding Practice Board Soldering Skill Training Kit

Item Description

It's diy kits.

Please note: The color of board maybe yellow or blue, random color shipped.

After welding, just connect electricity (3-12V) to see the effect.

You can quickly judge the welding effect.

The welding product is a beautiful water lamp circuit.

SIZE: 85.6mm*54mm*1.6mm

Listing:

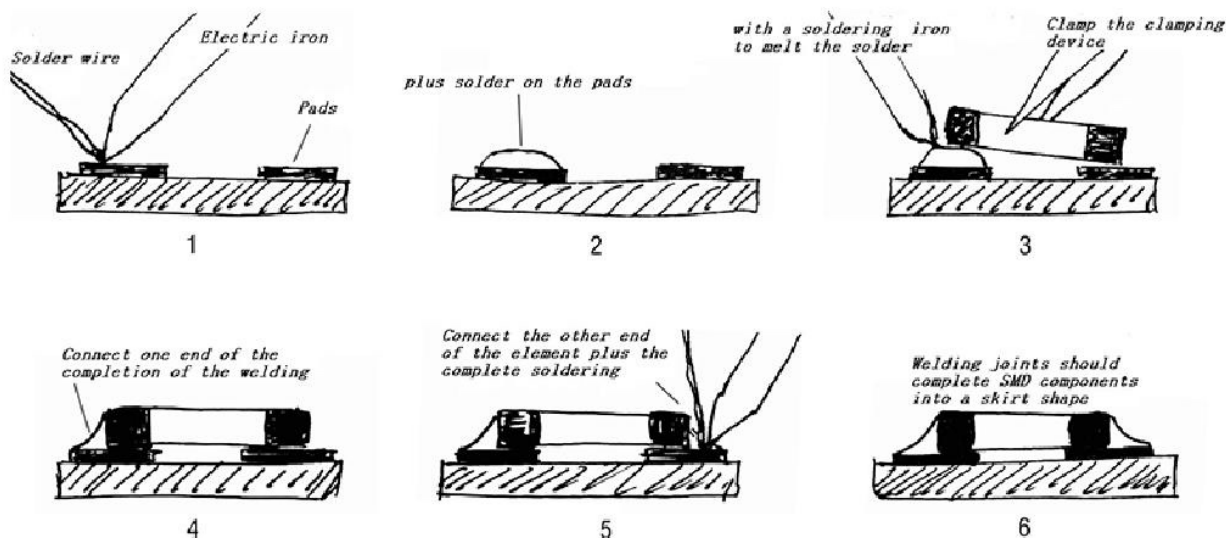
Number of electronic components : 125

Number of solder joints : 274

SMD components welding practice board Instructions

Welding Description:

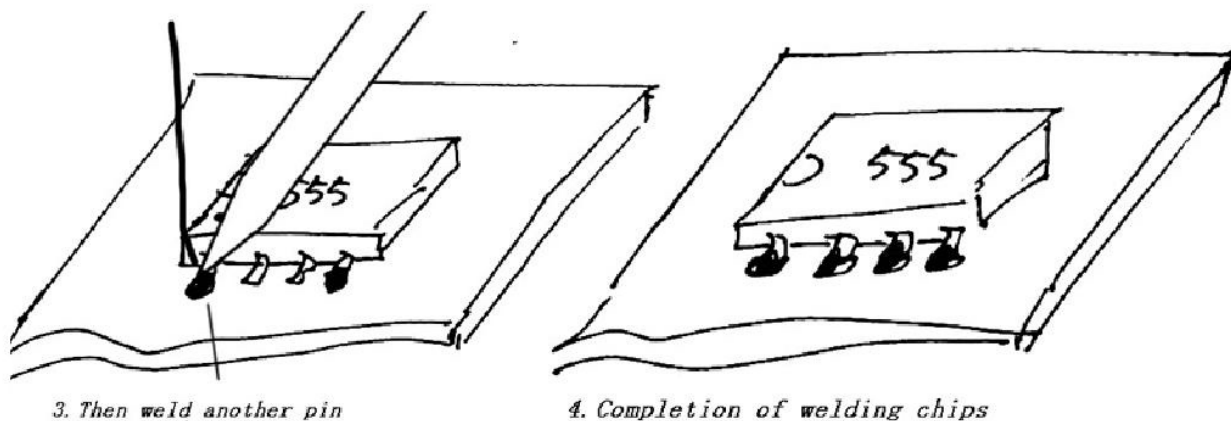
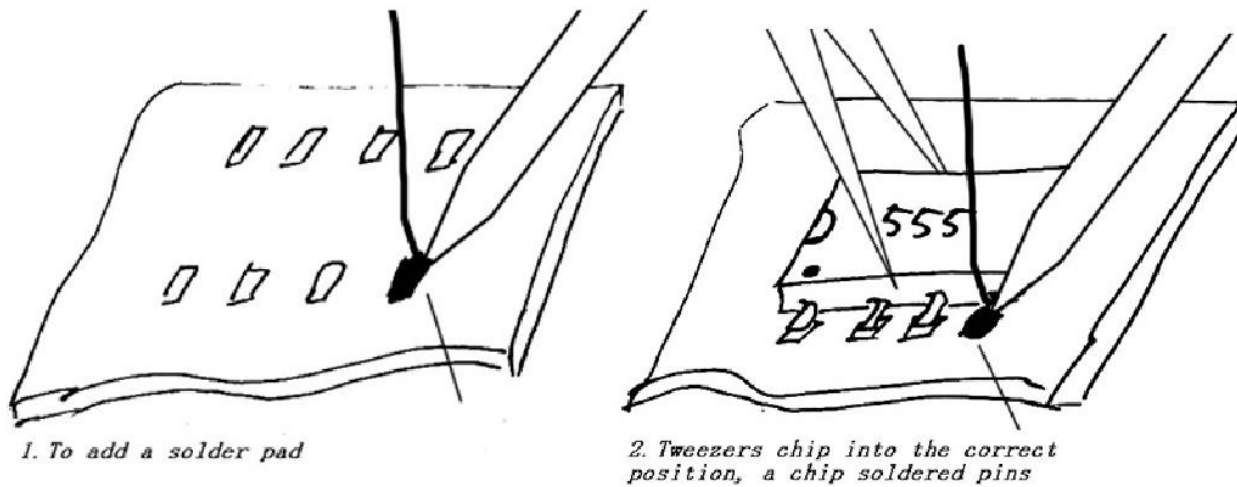
- 1, select the amount of 63% of 0.6mm solder wire solder, use 25W or 35W or blade tip electric soldering iron.
- 2, the first welding element 1206 package, then welded components 0805, 0603 and post-weld components, solder the middle part of the last element 0402.
- 3, 3 is a total of six elements welding practice area, as long as you can encapsulate the element models do not fully specified. Middle circle part is the actual operating area must be the subject of corresponding elements according to welding in order to achieve water lights function.
- 4, Chip RC components welding method illustrated. It can be deposited on a pad on the tin, and tweezers pickup element placed member of one, while forceps gripping elements, welded tin the head, and then look at whether being put up. As in place properly, and finally welding the other end; if positive, re-welding.



- 5, SMD LED green distinguish the positive and negative points on the board as shown in the thick line end there. LED welding time not too long, easy to damage the LED. Direction of the SMT 4148 in the following figure corresponds to go.

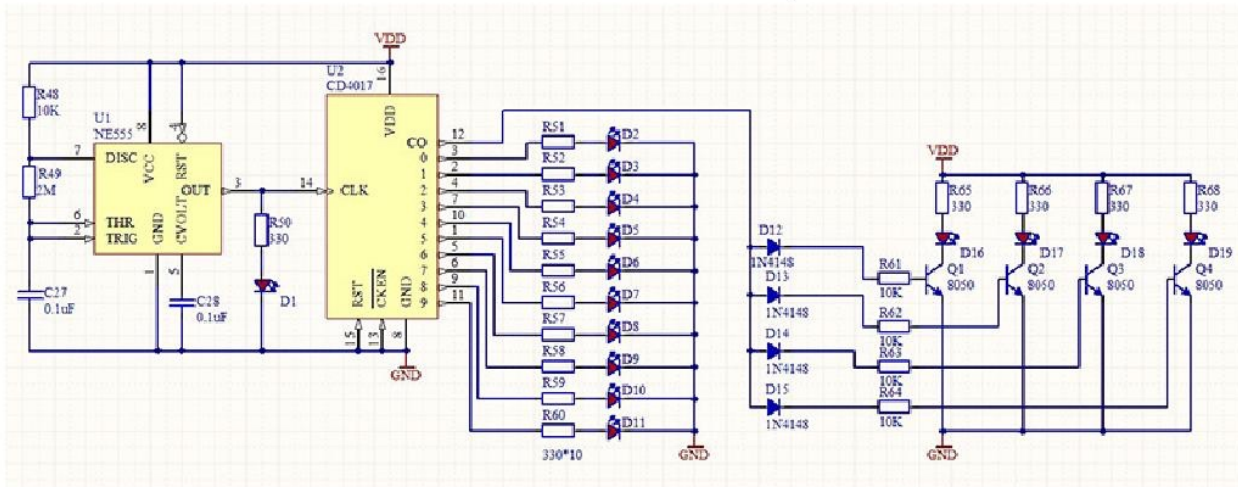


6, chip IC welding diagram. Welding IC chip, chip tweezers carefully placed on the PCB, it is aligned with the pad, and the direction of the chip to ensure proper placement. Tools hold the chip, the tip dipped in a small amount of solder, solder two pairs of angular position of the pin on the chip is fixed and can not move. Then re-check the correct position of the chip is good, if the problem can be adjusted aligned welding again. In case the correct position and then solder the remaining pins. To maintain the welding iron tip parallel with the welded pin to prevent the occurrence of excessive solder lap.

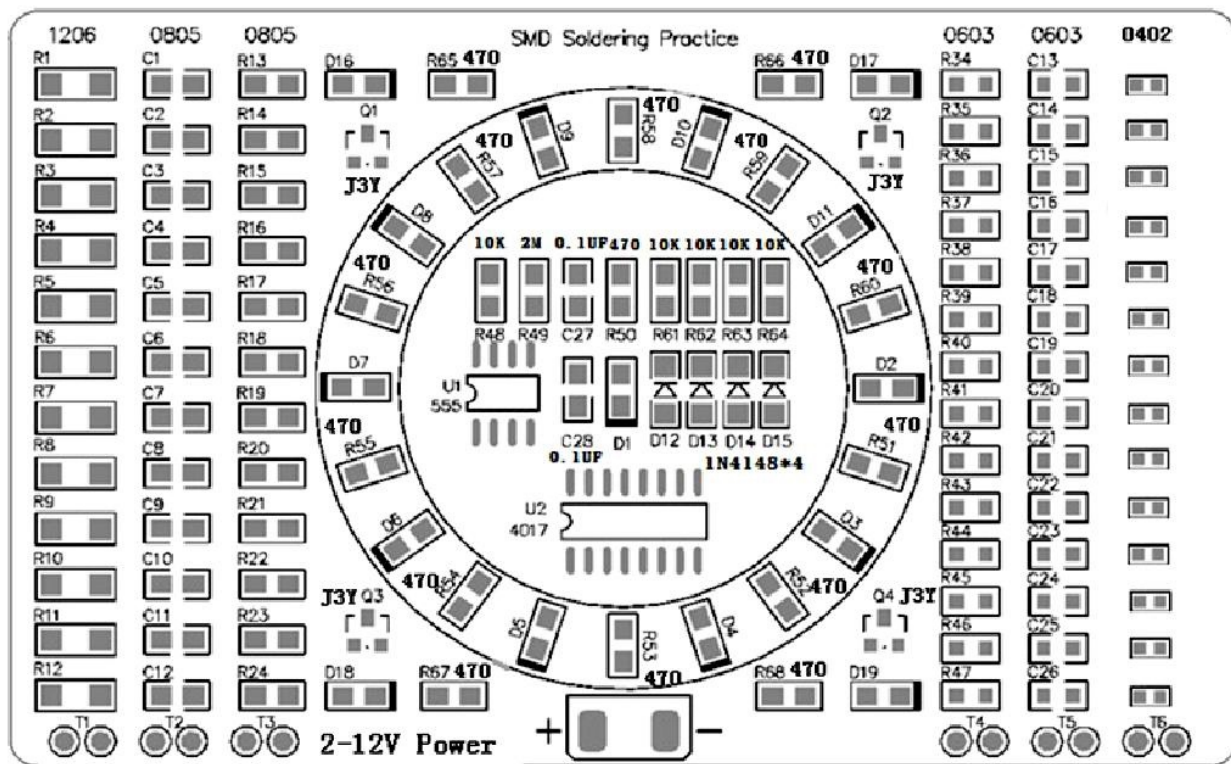


7, Finally, check whether tainted welding, Weld and take the tin phenomenon, and correspondence to the welding process.

8, SMD components welding practice board NE555 + CD4017 light water circuit schematic.



9, SMD components welding practice board component mounting diagram



1206 resistance	0805 resistance	0805 resistance	R50-R60, R65-R68: 470 resistance	Q1-Q4: 8050 Triode (J3Y)	0603 resistance	0603 capacitance	0402 resistance or capacitance
12	e12	e12	R48, R61-R64: 10K	D12-D15: 1N4148	14	14	14
			C27, C28: 0.1uF	R49: 2M			
			D1-D11: red LED	D16-D19: blue LED			

9. Component description

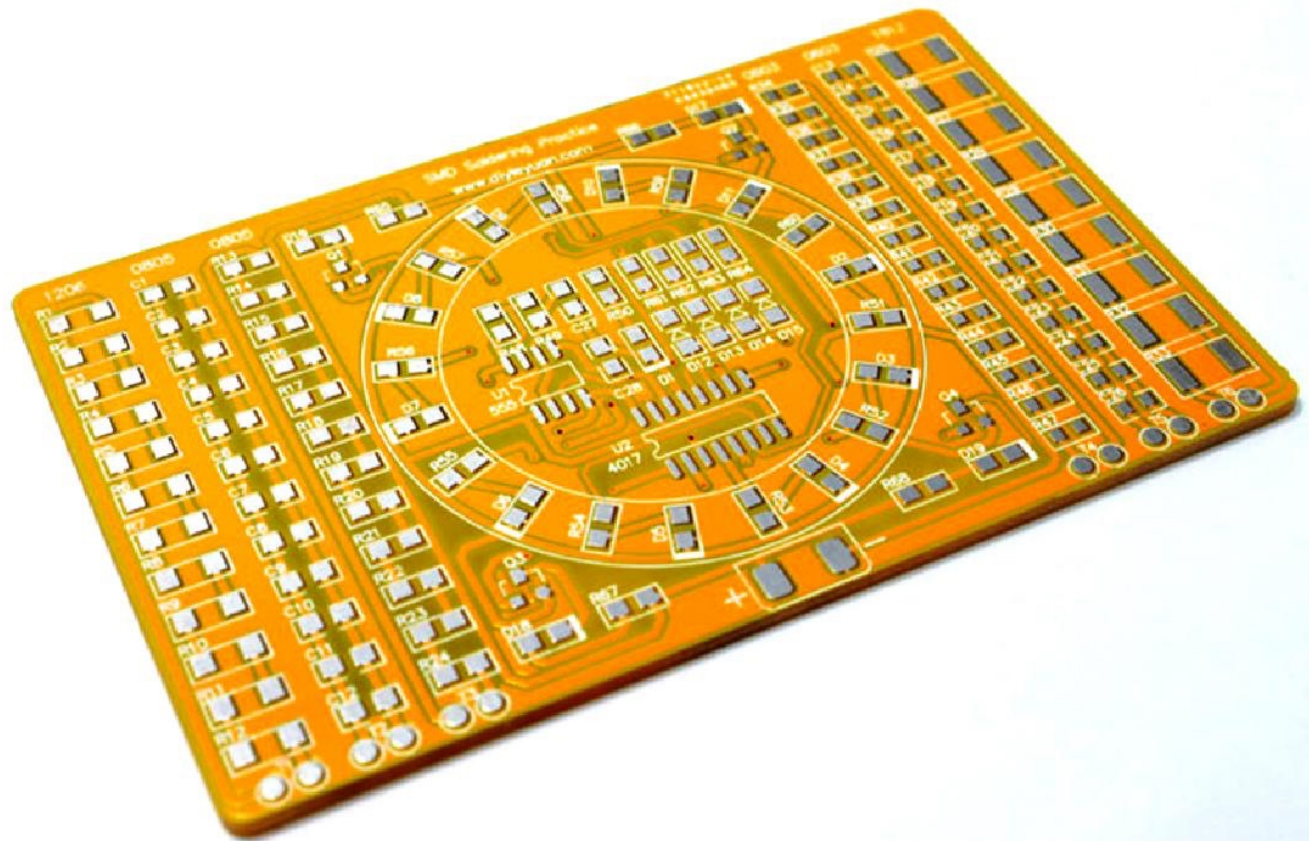
Circle around the 6 column is a welding exercise area, as long as the size of the package can be, there is no model requirements.

R65-R68 circle on the resistance R50-R60 and outside the circle is the LED current limiting resistor resistance range in between 300-1K (due to different batches, may the resistance change).

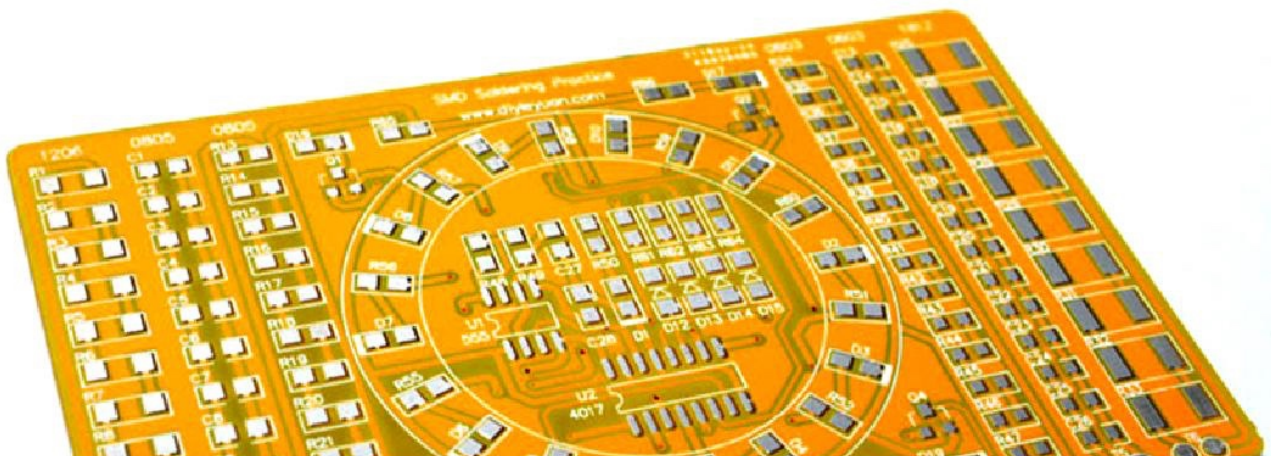
11. Component list

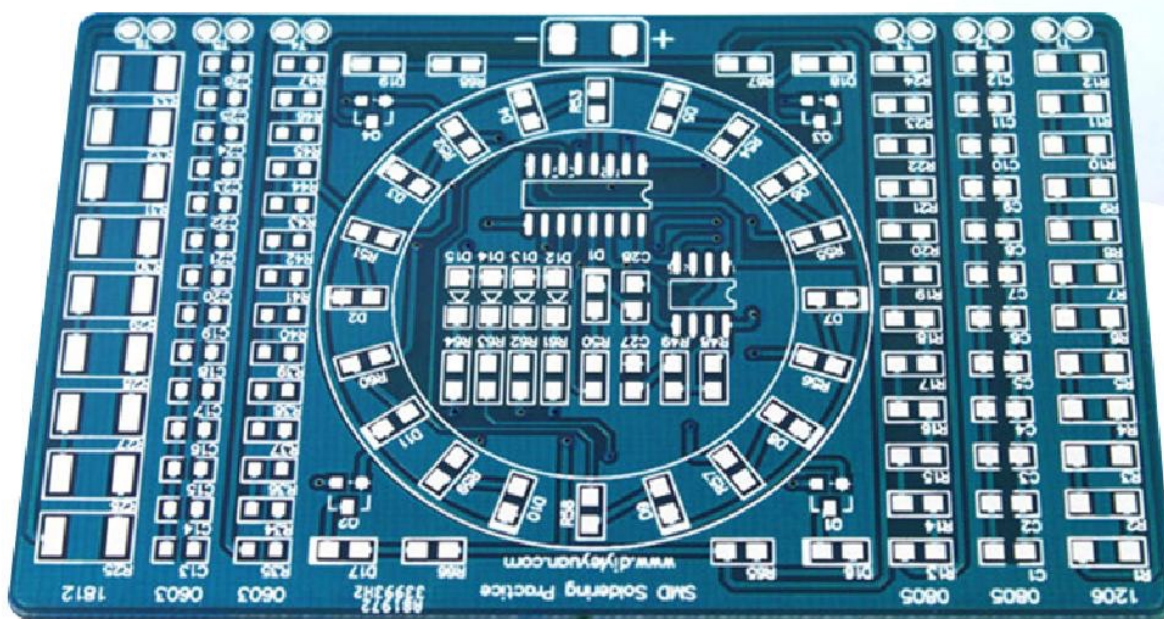
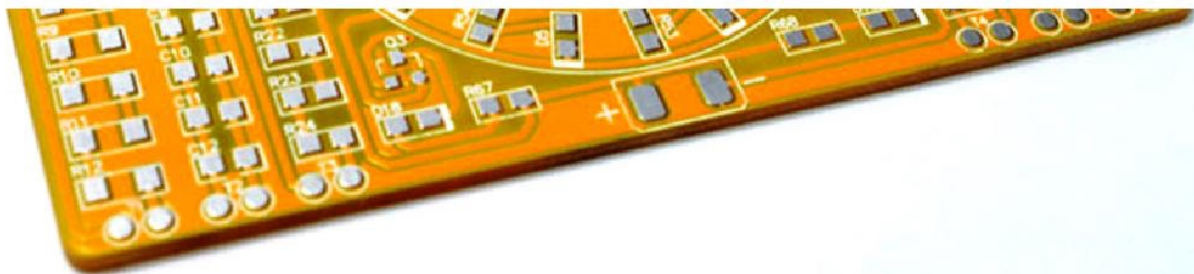
Component list

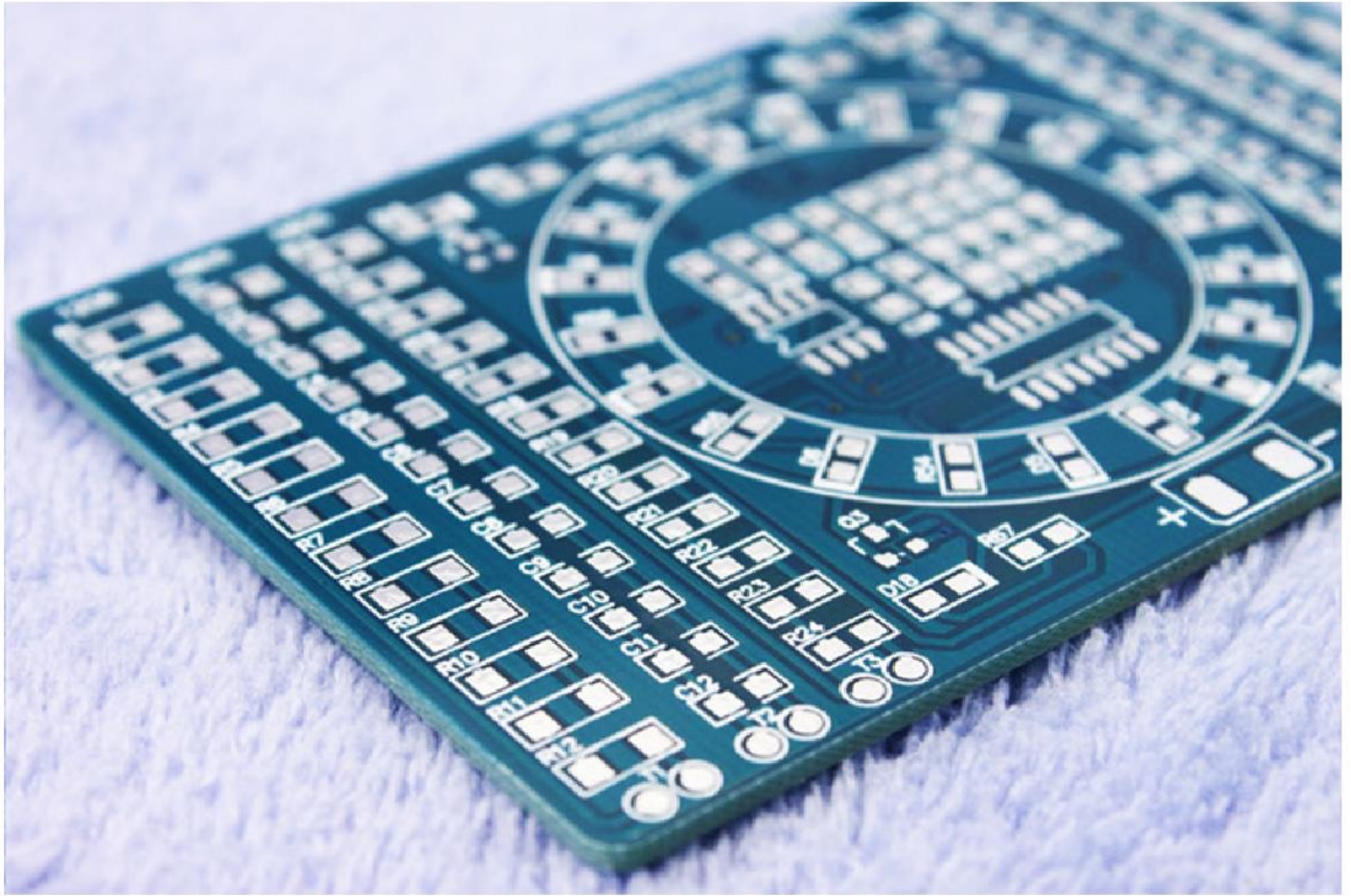
SN _o	encapsulation _o	name _o	Component model _o	number _o	Component position and label _o
1 _o	1206 _o	Chip resistor _o	random _o	12 prepare 2=14 _o	first columns on the left (R1-R12) _o
2 _o	0805 _o	Chip capacitor _o	random _o	12 prepare 2=14 _o	second columns on the left (C1-C12) _o
3 _o	0805 _o	chip resistor _o	random _o	12 prepare 2=14 _o	third columns on the left (R13-R24) _o
4 _o	0603 _o	chip resistor _o	random _o	14 prepare 2=16 _o	first columns on the right (R34-R47) _o
5 _o	0603 _o	Chip capacitor _o	random _o	14 prepare 2=16 _o	second columns on the right (C13-C26) _o
6 _o	0402 _o	Chip capacitor or resistor _o	random _o	14 prepare 2=16 _o	third columns on the right _o
7 _o	0805 _o	chip resistor _o	470 Ω _o	15 prepare 2=17 _o	10 circles on the circle (R51-R60)、Center 1 (R50)、Four corners of the outer circle 4 (R65-R68) _o
8 _o	0805 _o	Chip LED _o	red _o	11 prepare 1=12 _o	10 circles on the circle (D2-D11)、Center 1 (D1) _o
9 _o	0805 _o	Chip LED _o	blue _o	4 _o	Four corners of the outer circle 4 (D16-D19) _o
10 _o	SOT23 _o	Chip triode _o	J3Y _o	4 _o	Four corners of the outer circle 4 (Q1-Q4) _o
11 _o	LL34 _o	Chip diode _o	4148 _o	4 _o	Four corners of the outer circle 4 (D12-D15) _o
12 _o	0805 _o	chip resistor _o	10K _o	5 prepare 1=6 _o	5 circles in a circle (R48、R61-R64) _o
13 _o	0805 _o	chip resistor _o	2M _o	1 prepare 1=2 _o	1 circles in a circle (R49) _o
14 _o	0805 _o	Chip capacitor _o	0.1UF _o	2 prepare 1=3 _o	2 circles in a circle (C27、C28) _o
15 _o	SOP08 _o	IC _o	NE555 _o	1 _o	1 circles in a circle (U1) _o
16 _o	SOP16 _o	IC _o	4017 _o	1 _o	1 circles in a circle (U2) _o

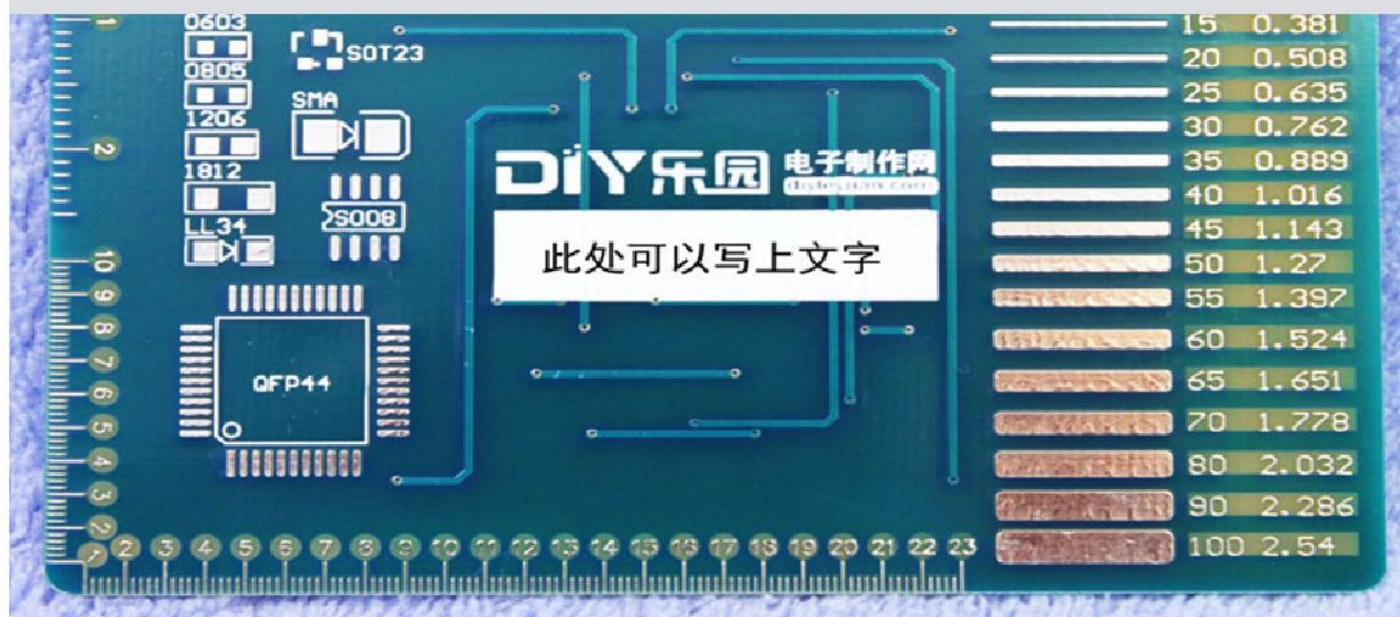
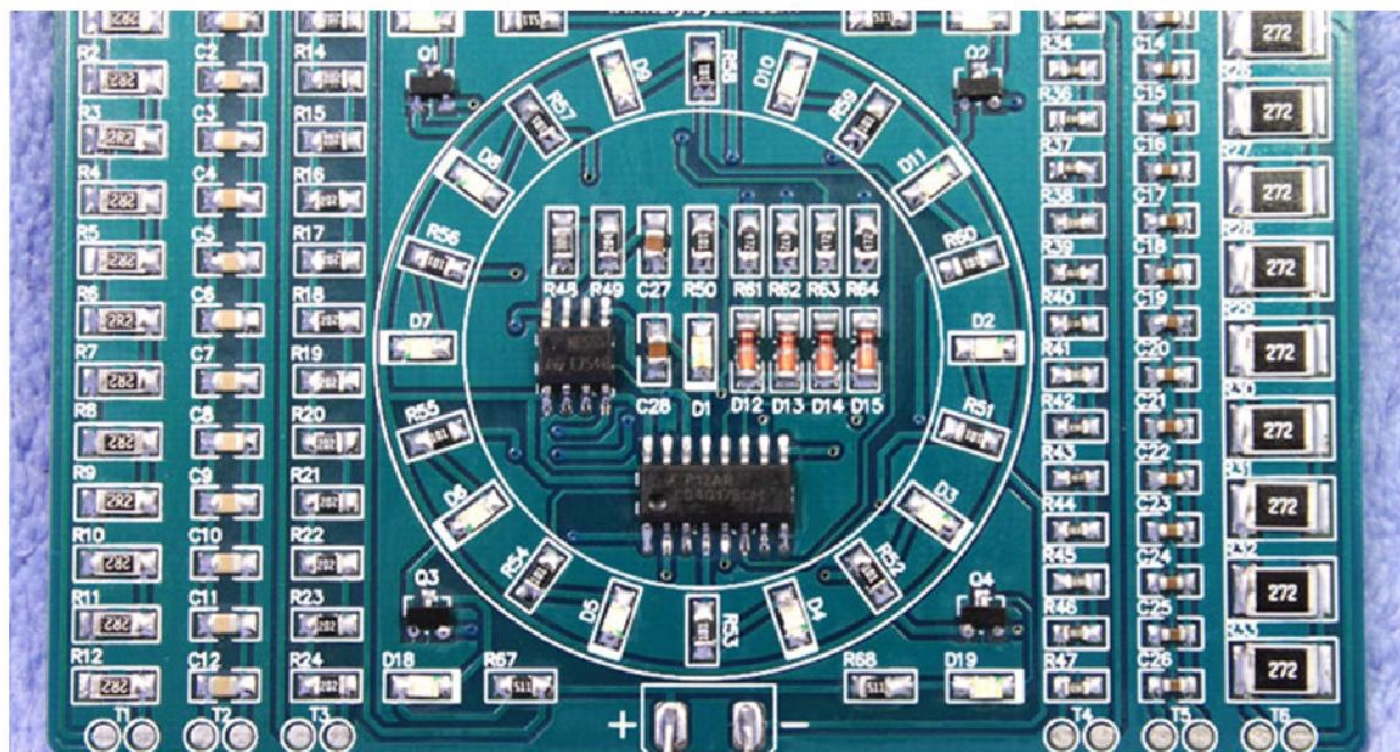


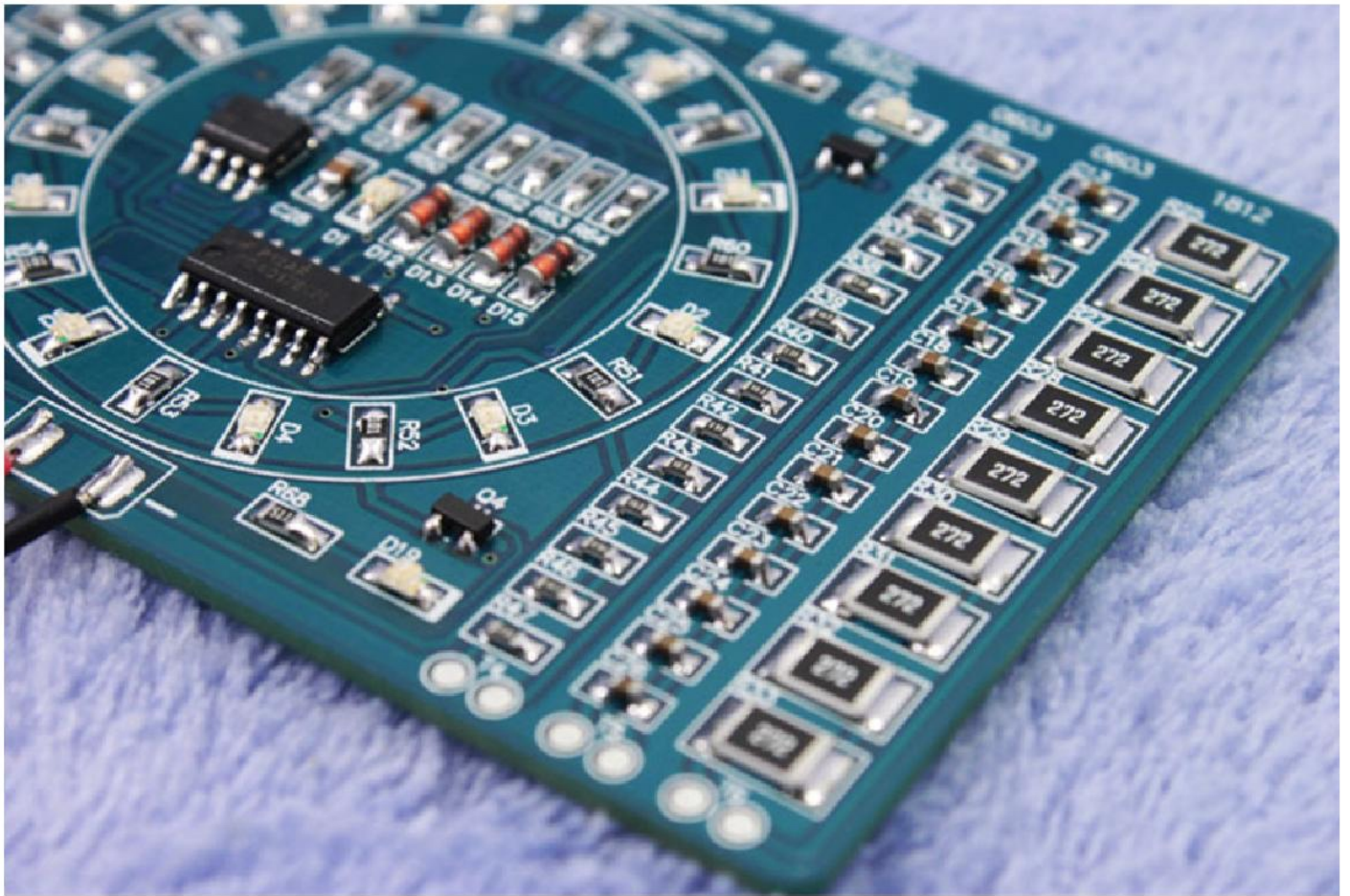
LONG *WIDE*THICKNESS
85.6MM*54MM*1.6MM

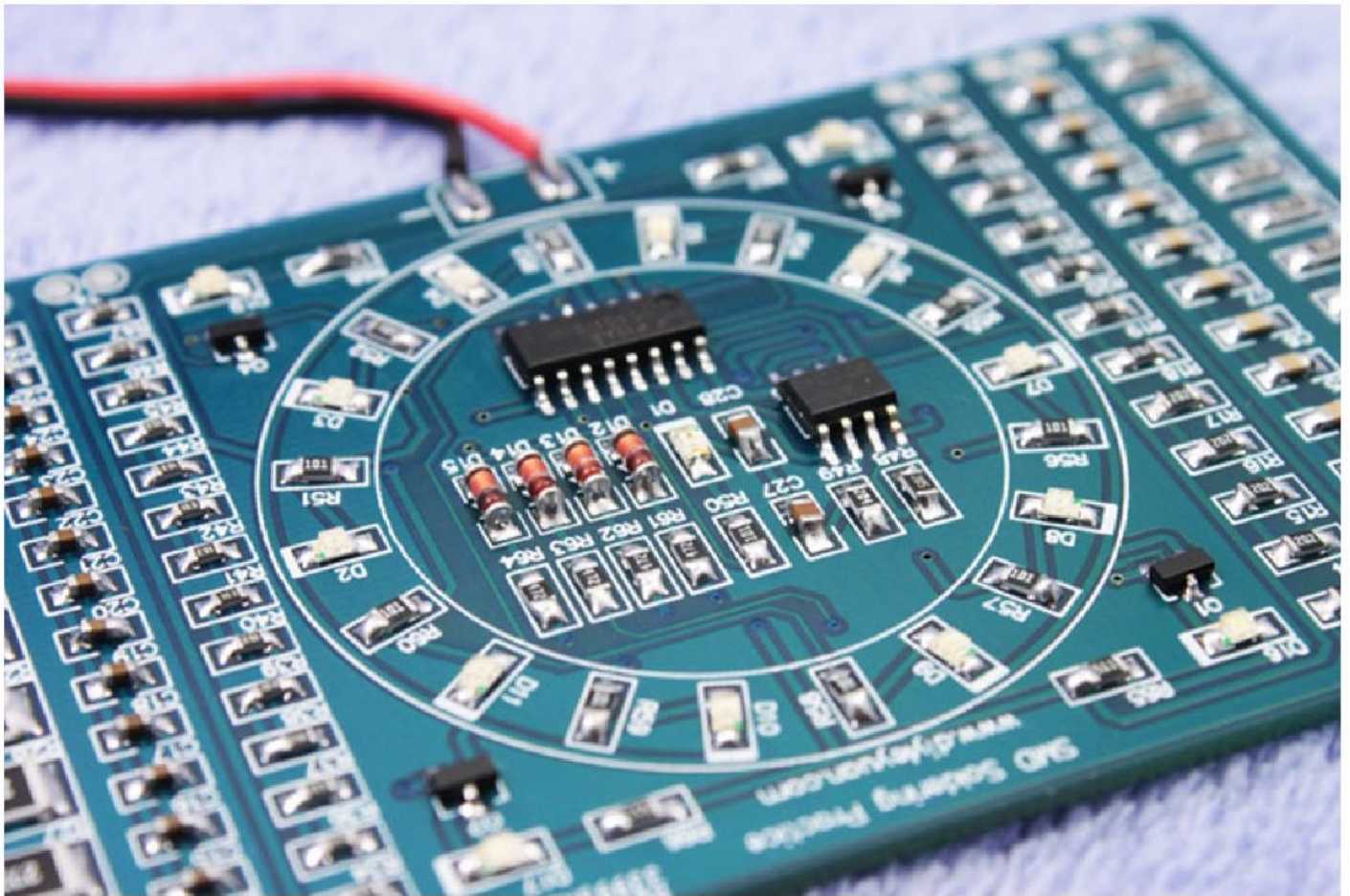


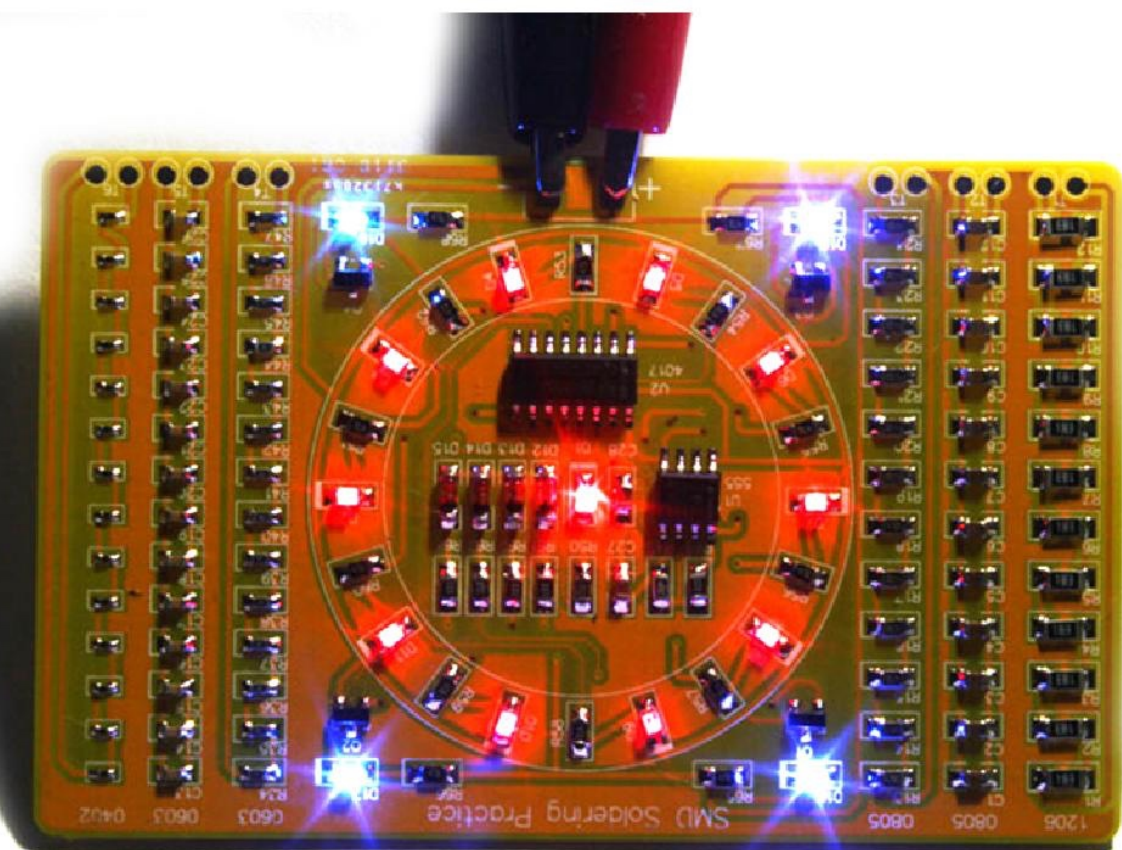












SMD Soldering Practice

