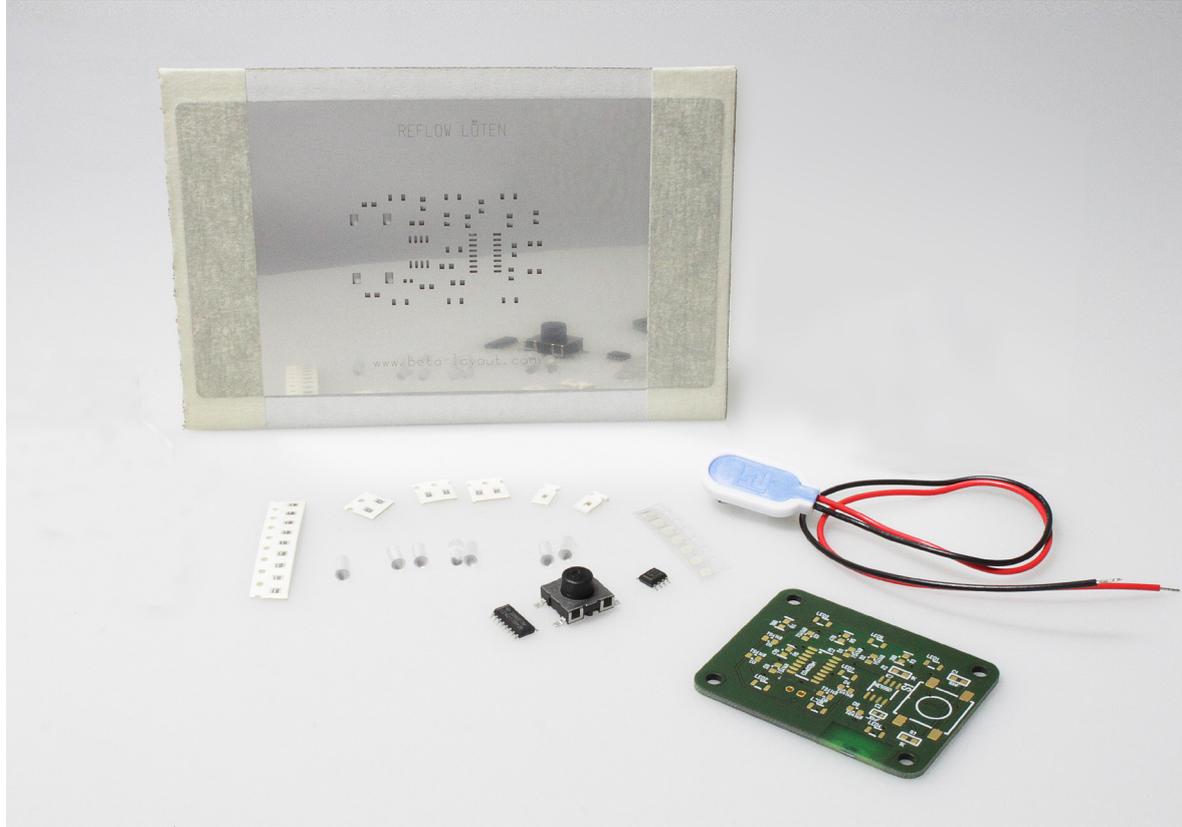


# SMD dice assembly kit



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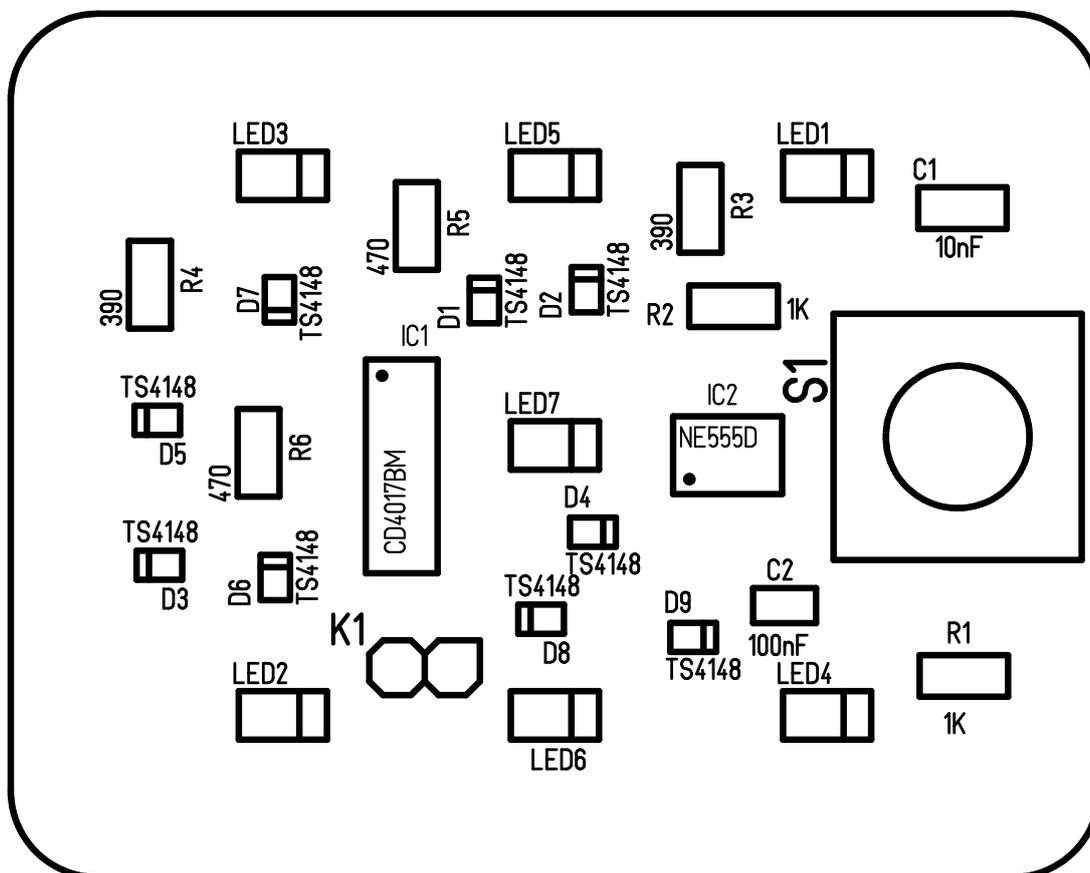
## 1. The SMD dice assembly kit

There are 7 LEDs on the board that are arranged like the dots on a dice.

To start the dice, press the button.

Once you release the button, the dice number that is thrown according to the random principle is displayed.

## 2. Assembly plan of the kit



### 3. Bill of materials SMD dice

Name	Quantity	Value	Package
C1	1	10nF	0805
C2	1	100nF	0603
D1, D2, D3, D4, D5, D6, D7, D8, D9	9	TS4148	0805
IC1	1	CD4017BM	SOIC16/WB3,9/P1,27
IC2	1	NE555D	SO8/WB3,9/P1,27
K1	1	Battery clip bush button	
LED1, LED2, LED3, LED4, LED5, LED6, LED7	7	LED-SMD1206_ROT	1206
R1,R2	2	1 K	0805
R3, R4	2	390 OHM	0805
R5, R6	2	470 OHM	0805
S1	1	SMD button 1618.11	BUTTON 1618.11

### 4. Assembly kit content

- Printed circuit board
- Suitable stencil
- 9 V block-battery
- Components

## 5. Notes on the components

### LEDs:

- Please note the polarity!
- There is a marker on the underside of the cathode
- Caution: the marker on the upper side in the LED body marks the anode

### Capacitors:

- No polarity
- No imprint!
- Arrangement here: by package type

### Resistors:

- No polarity
- Imprint 3900 -> 390  $\Omega$
- Imprint 4700 -> 470  $\Omega$
- Imprint 1001 -> 1 k $\Omega$

### Diodes:

- Please note the polarity!
- The cathode is marked

### SMD Button:

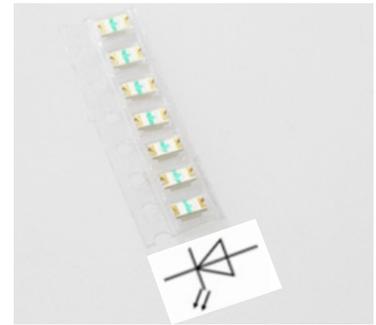
- No polarity

### Battery clip pushbutton:

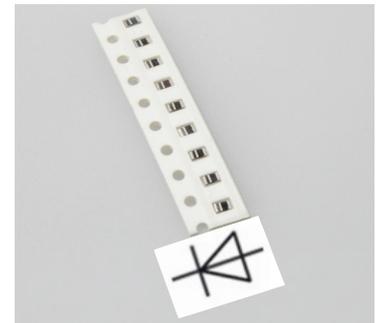
- Please note the polarity!
- See marker on the printed circuit board

### ICs:

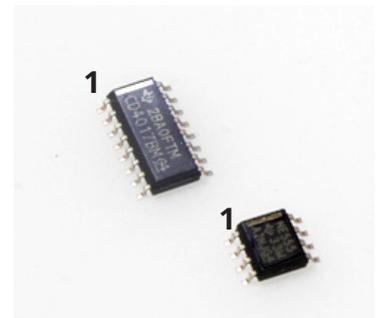
- Note the polarity!
- Pin 1 is marked



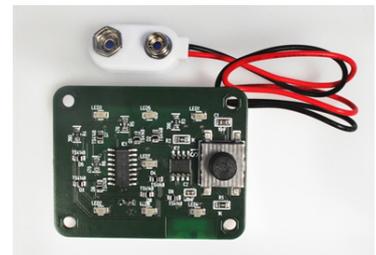
LEDs



Diodes



ICs



Complete assembly board