



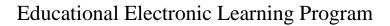
555 Timer (J2) [EELKTR] by TRONIC.LK

When the 555 adjustable timer is switched on, the green LED turns ON and shows that timing is in progress. When the time period is over the green LED turns OFF and the red LED turns ON. The time period can be adjusted by the variable resistor.

Working Principle

Astable multivibrator inside the 555 timer IC generates continuous pulses where the frequency of the circuit is controlled by R7, R10 resistors and C4 capacitor. Since R7 is adjustable, it is used to control the frequency.

The period T is equals to $1.1 \times (R7 + R10) \times C4$ where T is in seconds, R7, R10 are in ohms and C4 in farads (not in microfarads)





ITEM CODE	VALUE	DESIGNATOR	QUANTITY	IMAGE
CA0125	220uF	C4	1	
CA0002	100nf	С3	1	
TA0443	Header	J2	1	
LE0026	LED 5mm Green	LED 3	1	
LE0027	LED 5mm Red	LED 4	1	/P.
RP0031	470 Ohm	R6, R8	2	-
RP0059	100K	R10	1	-
RP0053	33K	R9	1	-()110-
RE0162	470K V/R	R7	1	
IC0018	NE555	U4	1	
HE0014	8 pin IC Base	U4	1	



Supply Voltage: 5V

