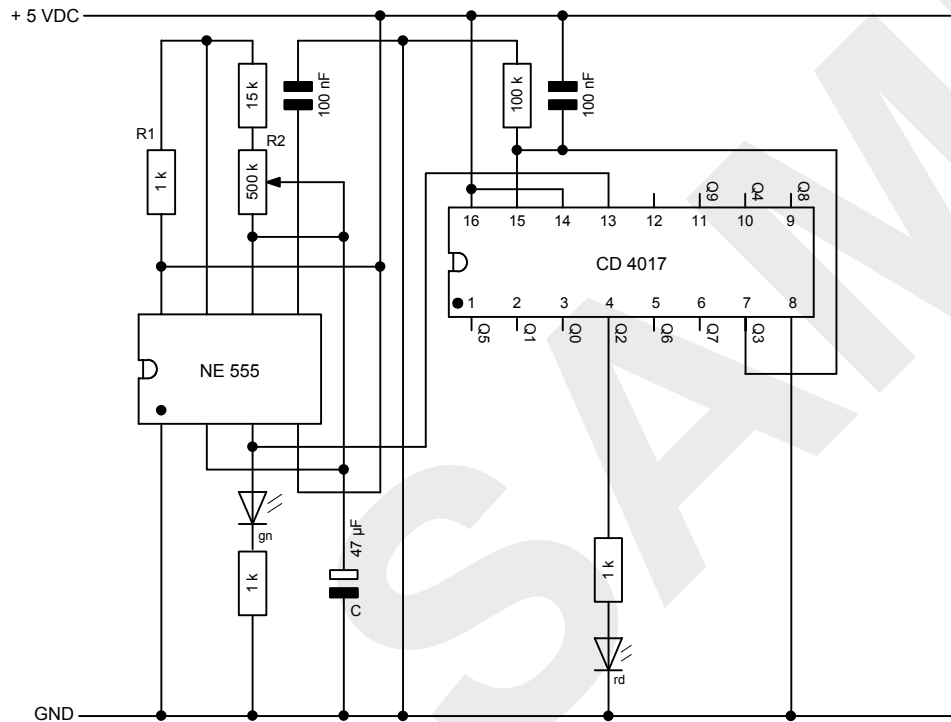
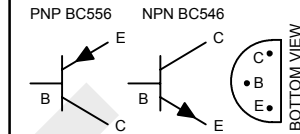


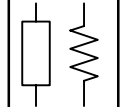
NE555 AMV & CD4017 DIVIDER (T OUT = T CLK x 3). FALLING EDGE COUNT



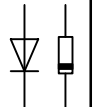
TRANSISTOR



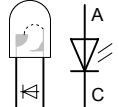
RESISTOR:



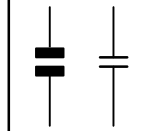
DIODE:



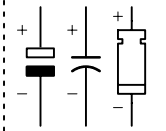
LED:



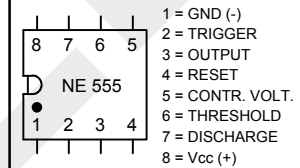
CAPACITOR:



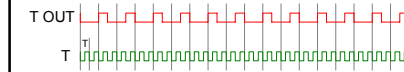
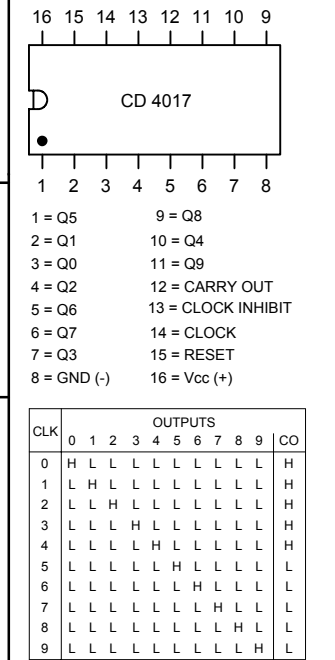
(POLARIZED)



TIMER IC NE 555:



DECADE COUNTER 4017:



T OUT = T x 3

$T = 0.69 \times C \times (R1 + 2 \times R2)$

$T_{min} = 0.69 \times 0.000047 \times (1000 + 30000) = 1 \text{ s}$

$T_{max} = 0.69 \times 0.000047 \times (1000 + 1030000) = 33.4 \text{ s}$

C = 47 µF
T min = 1 sec, T max = 33.4 sec

C = 470 µF
T min = 10 sec, T max = 5.6 min

C = 1000 µF
T min = 21 sec, T max = 12 min

FOR FULLY COMPONENT SPECS. SEE MANUFACTURER DATASHEETS		FIGURES ARE APPROXIMATELY, DUE TO COMPONENT TOLERANCES !		
TI-5	A4	udo@elgers.com	ue-ERT20210728-08	28-JUL-2021
070	A	CD4017 COUNTER / DIVIDER / TIMER - EXPERIMENT 06		