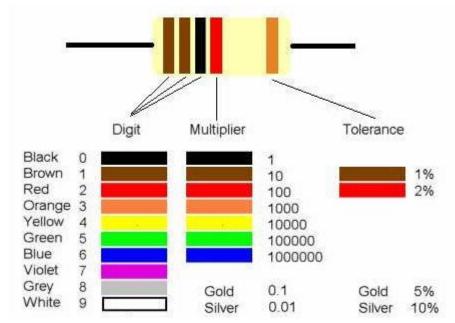
# 1) Direnc Okuma



Direncler 3 ya da 4 renkli olur, okunma sekli de su sekilde;

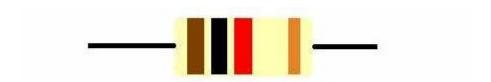
### 4 Renkli;

Digit1 - Digit2 - Digit3 - Digit Carpan - Tolerans



### 3 Renkli;

Digit1 - Digit2 - Digit Carpan - Tolerans



# 2) Direncler

### a. 470 Ohm



Sari – Mor – Kahverengi – Altin 4-7-1 Tolerans: %5 47\*10 = 470

### b. 1K Ohm



Kahverengi – Siyah – Kirmizi – Altin 1 - 0 - 2 Tolerans: %5 10\*100 = 1000 = 1K

### c. 2.2K Ohm



### d. 10K Ohm

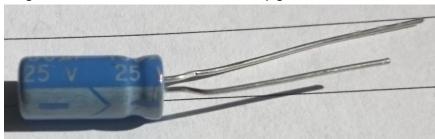


**Kahverengi** – **Siyah** – **Turuncu** – Altin 1 – 0 – 3 Tolerans: %5 10\*1000 = 10000 = 10K

### 3) Kapasitorler

## a. Polarizayon Sembolu

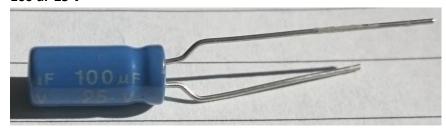
Asagida eksi sembolu ve ok isareti ile – kutup gosterilmektedir.



### b. 10 uF 25 V



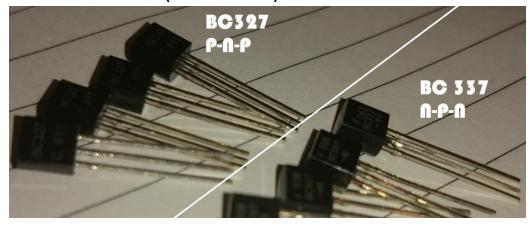
### c. 100 uF 25 V



- d. x
- e. x
- f. x

### 4) Transistorler

a. BC337 NPN & BC327 PNP (Ya da BC556 PNP)



# ITU-CON: Circuit Elements

# 5) Kapilar

### a. AND

i. 74HC08

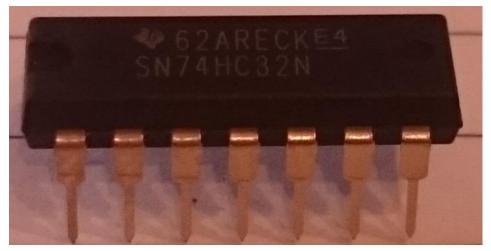
### M74HCT08B1



## b. OR

i. 74HC32

### SN74HC32N

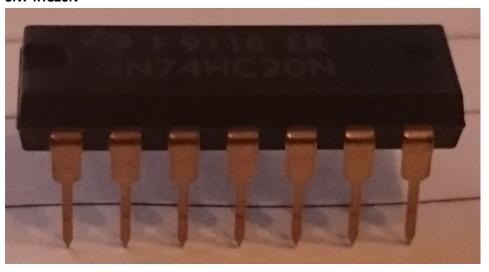


# ITU-CON : Circuit Elements

### c. NAND

i. 74HC20

### SN74HC20N



### d. NOR

i. 74HC02

### **SN74F02N**



### e. NOT

### i. 74HC04

## SN74HC04N



### 6) Tumlesik Devreler

# a. TIMER LM555



### b. LM393



### c. LM358



## d. 74HC74 Dual D Type Flip-Flop



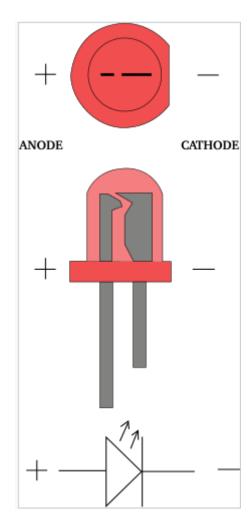
# e. 4017 COUNTER HCF4017BE



# ITU-CON: Circuit Elements

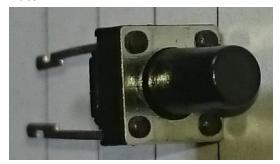
- 7) Guc Kaynaklari
- 8) Diger
  - a. LED'ler





# ITU-CON : Circuit Elements

## b. Buton



c. x