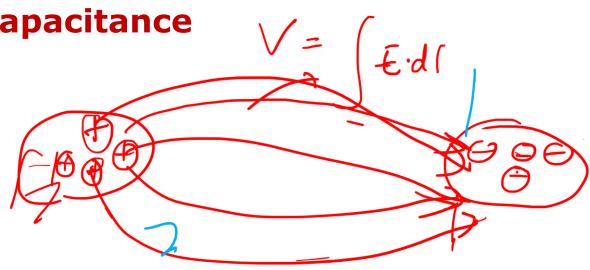
## Passive IC Devices

09 June 2025

## Resistance

$$R = (3) \frac{L}{w} = 30.2 \times 1 = 0.0533 \frac{S}{D}$$

Capacitance



$$\frac{Q}{E_0} = E \cdot A \Rightarrow Q = G \cdot A$$

$$\Rightarrow E = V$$

$$\Rightarrow C = V$$

$$C = \frac{C_{5i02} \cdot A}{d}$$

$$C = \frac{C_{5i02} \cdot A}{d}$$

$$C_{2} = \frac{C_{0} \cdot A}{d}$$

$$C_{3} = \frac{C_{0} \cdot A}{d}$$

$$C_{3} = \frac{C_{0} \cdot A}{d}$$

$$C_{4} = \frac{C_{0} \cdot A}{d}$$

$$C_{5i02} \cdot A$$

$$C_{5i02} \cdot A$$

$$C_{5i02} \cdot A$$

$$C_{7i02} = \frac{C_{0} \cdot A}{d}$$

