



$$\Delta V = I_e R_m$$

$$R_m = r_m / A$$

$$r_m \approx 1 \text{M}\Omega \cdot \text{mm}^2$$

$$Q = C_m V$$

$$C_m = c_m A$$

$$c_m \approx 10 \text{nF} / \text{mm}^2$$