

$$A = 260 \, \text{m/g}^{2} \times \left(\frac{25.4 \, \text{mm}}{1000 \, \text{m/g}}\right)^{2} \Rightarrow A = 0.161 \, \text{mm}^{2}$$

$$A = \omega. t \Rightarrow \omega = \frac{A}{4} = \frac{0.161 \, \text{mm}^{2}}{35 \, \text{cm}}$$

$$\Rightarrow \omega = \frac{0.161 \, \text{mm}^{2}}{35 \, \text{cm}} \Rightarrow \omega = 4.6 \, \text{mm}$$

$$I. \quad 0.048 \times At^{2044} \times A^{0.725} \quad At = 20$$

$$I = 0.048 \times At^{2044} \times A^{0.725} \quad At = 20.179 \, A^{20715}$$

$$\Rightarrow A^{0.725} = \frac{I}{0.179} \Rightarrow A = \sqrt{\frac{1}{0.179}} \Rightarrow A = 10.728 \, \sqrt{I}$$

$$A^{mal} = 10.729 \times 6.451 \, \text{m/g}^{2} \qquad 0.725 \quad I$$

$$\omega = \frac{6.922 \, \text{m/g}^{2}}{35 \, \text{m/g}^{2}} \qquad 0.725 \quad I$$

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$$\int_{-1}^{1} \frac{P \cdot L^{m}}{A^{m2}} \qquad \int_{-1}^{1} \frac{P_{o}(1 + \alpha(T - T_{o}))}{P_{o}(T)} = P_{o}(1 + \alpha(T - T_{o}))$$

$$T_{o} = 25^{\alpha} \quad P_{o} = 1.68 \times 10^{-8}, \quad \alpha = 0.00386$$

$$T = 25 + 20 = \sqrt{T - 45} \qquad P_{o}(45) = 1.81 \times 10^{-8}$$

skin effect



Cross-sectional area of a round conductor available for conducting DC current

"DC resistance"



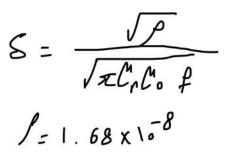
Cross-sectional area of the same conductor available for conducting low-frequency AC

"AC resistance"



Cross-sectional area of the same conductor available for conducting high-frequency AC

"AC resistance"



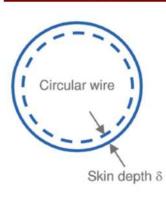
Co= 1.2566 37x10-6

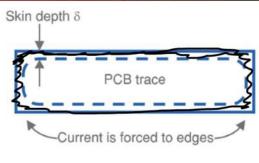
$$S = \frac{\sqrt{1.68 \times 10^{-8}}}{\sqrt{\pi \times 1 \times 1.256637 \times 10^{-6}}}$$

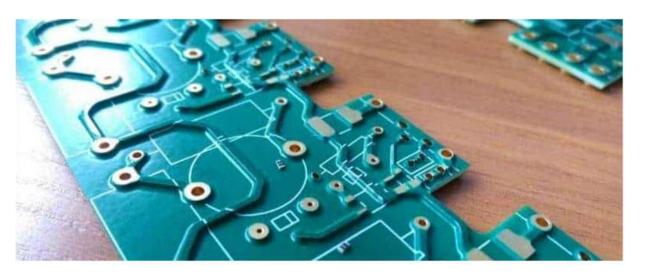
$$\frac{10}{350} = \frac{2 \times 9.200}{350} \times 100$$

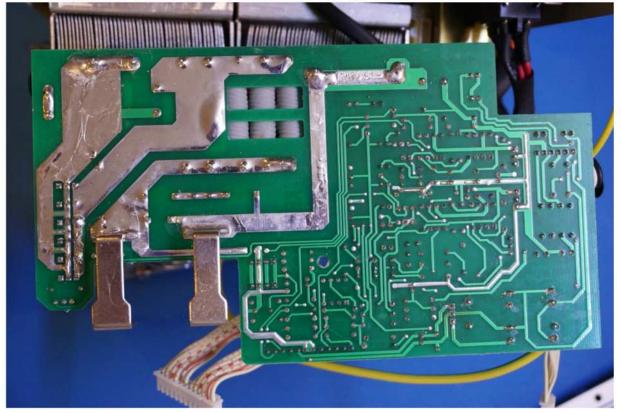
$$= 2 \times 9.200 \times 100$$

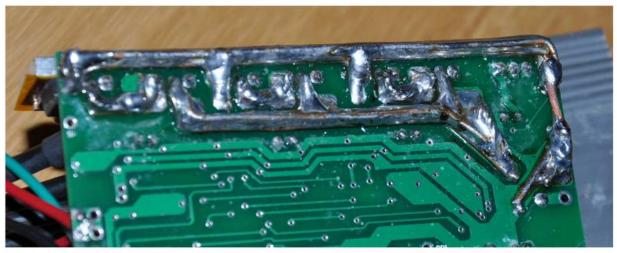
$$= 2 \times 9.200 \times 100$$











Resist Resist Copper Laminate

