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Radiation resistance = R\_r = 40pi^2[0.1/(c/18.4\*10^6)]^2 = 0.0149 Ohm

Surface resistance Rs = sqrt(2\*pi\*f\*mu0/2\*sigma) = 60.26 10^-3 Ohm

Ohmic resistance R\_0 = (h/2pia)(Rs/3) = (0.1/2pi 1.5875\*10^-3)(Rs/3) = 0.0201.38 Ohm

Radiation efficiency e\_r = R\_r/R\_r+R\_0 =