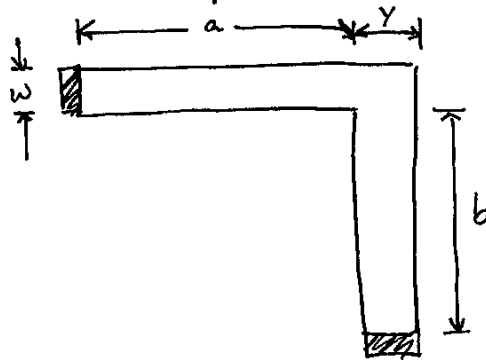


To: John Larkin
Jim Thompson

From: Steve Goldstein, ADI



$$R = R_s * \left[\frac{a}{w} + \frac{b}{y} + F\left(\frac{y}{w}\right) \right] \quad \text{where}$$

$$F(x) = \frac{1}{x} - \frac{2}{\pi} \ln\left(\frac{4x}{x^2+1}\right) + 2 \frac{(x^2-1)}{\pi x} \tan^{-1}\left(\frac{1}{x}\right)$$

Ref: Hagedorn, F.B. and P.M. Hall, "Right-Angle Bends in Thin Strip Conductors", J. Appl. Phys. 34 (1963), 128.

Hall, P.M., "Resistance Calculations for Thin Film Patterns", Thin Solid Films 1 (1967/68), 277

For your geometry $a = 9w$, $b = 9y$, $w = y$

$$R = R_s * 18.559$$

↑
sheet-resistivity

Steve