A planar line of width 2 mm is made on Rogers Corporation RO4003C substrate which has a non-magnetic dielectric substrate with a relative permittivity of 3.55, loss tangent of 0.0021 ($\sigma = 10^{-3}$ S/m), thickness of 0.813 mm, and 0.5 oz copper cladding (17 µm thick). When operated at 2.4 GHz, find the per-unit-length parameters R, L, C, and G. Also, calculate the skin depth δ before finding R.

$$\frac{17 \mu m}{0.813 nu} = \frac{1}{3.55 \, \epsilon_0} = \frac{1}{0.813 nu}$$

$$\frac{1}{3.55 \, \epsilon_0} = \frac{1}{0.813 nu}$$

$$\frac{1}{0.813 nu}$$

$$\frac{1}{3.55 \, \epsilon_0} = \frac{1}{0.813 nu}$$

$$\frac{1}{0.813 nu}$$

$$\frac{1}{0.81$$