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Parameter Units Free-space Value Electrical permittivity  $\epsilon/\epsilon_0 = 8.854 \times 10^{-12}$  (F/m)  $\mu_0 = 4\pi \times 10^{-7}$  (H/m) Magnetic permeability  $\mu/\mu_0 = 4\pi \times 10^{-7}$  (H/m) Conductivity  $\sigma$  S/m 0 Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall

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