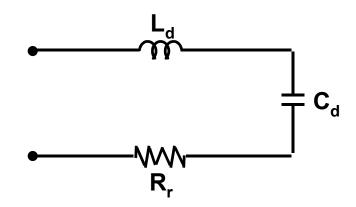# EQUIVALENT CIRCUIT OF A SHORT DIPOLE

Half length = ℓ

radius = a

$$R_r = 20 \, (\beta \, \ell \,)^2$$

$$C_d = \frac{\ell}{0.036 \left[\ln \dfrac{\ell}{a} \right]} \text{ pF}$$

$$L_d = \frac{1.6 \, \ell}{\pi^2} \left[\ln \dfrac{\ell}{a} \right] \text{ } \mu H$$

$$\beta = 2 \, \pi / \lambda$$

HOC
ELECTROMAGNETIC
COMPATIBILITY