$\varepsilon_0 \quad \mu_0$

$\varepsilon_r \quad \mu_r$

FR4

$\mathcal{V} = 0$

$$\nabla \times \vec{\mathcal{E}} = -\mu \frac{\partial \vec{\mathcal{H}}}{\partial t}$$

$$\nabla \times \vec{\mathcal{H}} = \varepsilon \frac{\partial \vec{\mathcal{E}}}{\partial t} + \vec{\mathcal{J}}$$