Short Circuit Load

\[ u \text{ or } \beta, Z_0 \]

\[ S \to \infty, \quad \Gamma_L = -1 \]

Open Circuit Load

\[ u \text{ or } \beta, Z_0 \]

\[ S \to \infty, \quad \Gamma_L = 1 \]

General Load

\[ Z_0 = 50 \, \Omega, \quad Z_L = 30 + j50 \, \Omega \]

\[ u \text{ or } \beta, Z_0 \]

\[ S = 3.65, \quad \Gamma_L = 0.57 \angle 80^\circ \]

Matched Load

\[ Z_0 = Z_L \]

\[ u \text{ or } \beta, Z_0 \]

\[ S = 1, \quad \Gamma_L = 0 \]

Note: \(|I|, \, |V|, \, \Gamma \text{ & } Z \text{ repeat at } n\lambda/2 \text{ intervals} \]