

$$VSWR = s$$

$$s = \frac{1 + |\Gamma|}{1 - |\Gamma|}$$

$$\Gamma = \frac{s - 1}{s + 1}$$

$$\Gamma = \frac{U_r}{U_v}$$

$$\Gamma = \frac{Z_{ant} - Z_0}{Z_{ant} + Z_0}$$

$$RL = -20\log_{10}(|\Gamma|)$$