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Reflection coefficient (Γ)

for short load $|\Gamma| = 1$

for open load $|\Gamma| = 0$

SWR;

for short load $= (1 + \Gamma) / (1 - \Gamma) = 2/0 = \infty$

for open load $= (1 + \Gamma) / (1 - \Gamma) = 1/1 = 1$

Return loss;

For both cases no resistance is offered to the incident power hence, zero reflection from the load leading to.

short load = 0dB return loss

open load = 0dB return loss