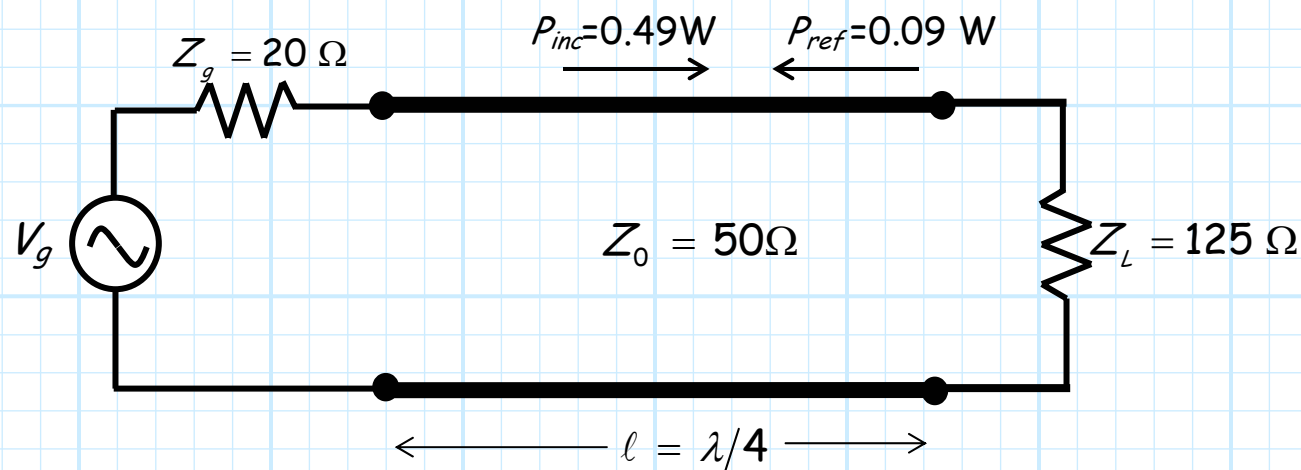**Special Problem 2.6-7**

Consider this circuit, where the transmission line is **lossless** and has length $\ell = \lambda/4$:

The wave incident on the load Z_L has power of P_{inc} =0.49 W.

The wave reflected from the load Z_L has power of P_{ref} = 0.09 W.

Determine the magnitude of source voltage V_g (i.e., determine $\left| V_g \right|$).

Hint: This is **not** a boundary condition problem. Do **not** attempt to find $V(z)$ and/or $I(z)$!