## Special Problem 2.3-13

Consider a terminated, lossless transmission line:


At location $z=0$, the wave reflected from load $Z_{L}$ has the value:

$$
V^{-}(z=0)=j
$$

The current through the load is:

$$
I_{L}=j 0.04 \mathrm{~A}
$$

Determine the characteristic impedance of the transmission line.

