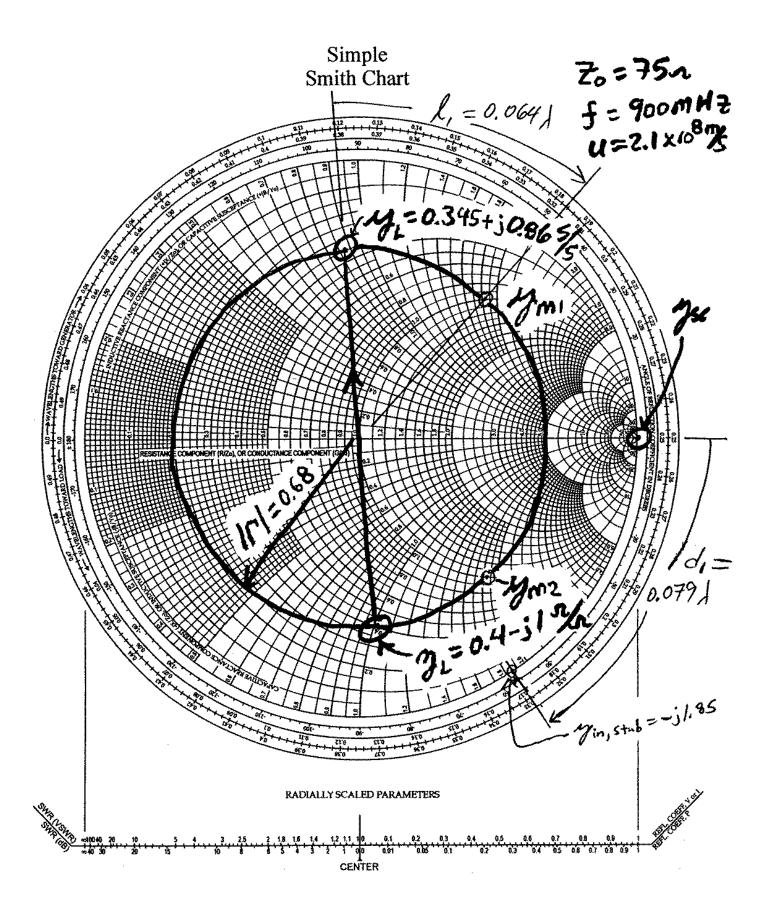
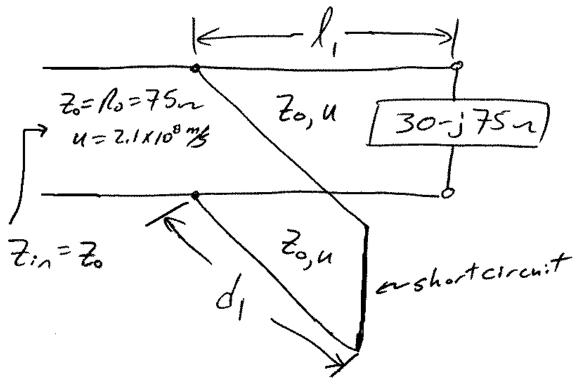
Matching load using a shorted single stub

Match a load of $Z_L = 30 - j75 \Omega$ connected to a 75 Ω generator operating at 900 MHz using a lossless transmission line ($u = 2.1 \times 10^8$ m/s, 75 Ω) and a **short circuit** single-stub tuner made of the same transmission line.





where

$$l_1 = 0.064 l = 1.493 cm$$

on
$$d_1 = 0.0791 = 1.843 \text{ cm}$$

 $d_1 = 0.0791 + n / 2 = 1.843 + n / 1.66 \text{ cm}$