

$a=0.03447$   
 $\epsilon_r=3.38$   
 $h=0.0018$   
 $E_{eff} = 0.5 * (\epsilon_r + 1) + (\epsilon_r - 1) / (2 * \sqrt{1 + 10 * h / (a * 0.75)})$   
 $\Delta L = 0.412 * h * (E_{eff} + 0.3) * (0.75 + 0.262) / ((E_{eff} - 0.258) * (0.75 + 0.813))$   
 $\Delta L_{el} = \Delta L * 180 / a$   
 $\lambda_0 = 0.3 / 2.45$   
 $G_{11} = a * (1 - (3.14159^2) / 6 * (h / \lambda_0)^2) / (120 * \lambda_0)$

$L_{tot}=174$   
 $L_1=58.09$   
 $L_2 = L_{tot} - L_1$

