(1)  $Z_{in} = Z_0 \cdot \frac{Z_1 + 1Z_0 tankle}{Z_0 + jZ_1 tankle}$  $\forall Z_0 = 75 \Omega$ ,  $Z_1 = 150 - 150 \Omega$ P=k= 学, L=5cm =0.05m  $/Z_{in} = 49.9 + 145.5 \Omega$ (2) \(\sqrt{Vp} = \frac{\omega}{\omega}\) 1, 27 = Vp. 8 = 17% c. 27. : f = 77%c = 3.85 x 109 Hz = 3.85 GHZ (3)  $\Gamma_0 = \frac{Z_L - Z_0}{Z_1 + Z_0}$ SWR = 1+1161 = 2.2845