Helix TWT Problems

(1)
$$\sqrt{p} = \frac{\omega}{\beta} = \frac{2\pi f}{\beta} = \frac{2 \times \pi \times 9.5 \times 10^9}{2.01 \times 10^3} = \frac{2 \times \pi \times 9.5 \times 10^9}{2.01 \times 10^3}$$

ml

(ii)
$$C = \left(\frac{I_0 + 0}{4 V_0}\right)^3 = \left(\frac{25 \times 10^{-3}}{4 \left(2.5 \times 10^3\right)}\right)^3$$

Substitute this 'C' value in AP to get final argwer of Ap.

Dsolution Given:

$$V_0 = 4kV$$
, $E_1 = 4V/m$
 $V_0 = 4kV$, $E_1 = 4V/m$
 $V_0 = 4kV$, $E_1 = 4V/m$
 $V_0 = 1.1V_0$
 $f = 26H3$.

 $V_0 = 9$
 $V_$