$$X_{Ln} \times_{Cin} = \frac{1}{N^{2}} (1+THA)$$

$$= 0.042$$

$$\therefore L_{1n} = 0.00[149 \text{ Henrys} \cdot 2 1.149 \text{ mH}]$$

$$Oof V_{0}(n=6) = 0.9549 \text{ Vm} \times \frac{2}{35}$$

$$= 11.5466 \text{ V}$$

$$I_{0}(n=6) = \frac{V_{0}(n=6)}{R_{L}}$$

$$= 0.2309 \text{ A}$$

$$\Delta V_{0} = 5 \text{ B}.$$

$$Cout = \frac{100 \cdot (I_{0}(n=6))}{\sqrt{2} \times (\Delta V_{0} \cdot R_{C} \times 12\pi x \cdot R_{S})}$$

$$= 4.125 \text{ MF}.$$