حل شیء‌های دهم هزاری شیء


c_{01} c_{0y} 

\[ P_{\text{input}} = -\gamma_0 \text{dBm} - \gamma \left( \text{dBm} + V_0 \text{dBm} \right) \]

\[ \text{(*) } P_{\text{input}} = -14 \text{ dBm} \]

\[ \text{(*) } P_{\text{input}} = -3 \text{ dBm} - \gamma \left( -\gamma \text{ dBm} + V_0 \text{ dBm} \right) = -14.3 \text{ dBm} \]

\[ \Delta P = P_{\text{out}} - P_{\text{input}} = -3 \text{ dBm} \]

\[ \frac{\Delta P}{\gamma} = \Delta V_1 \text{ dBm} \quad \Rightarrow \quad i_{\text{ip3}}^{\text{total}} = \Delta V_1 \text{ dBm} - V_0 \text{ dBm} \]

\[ \Rightarrow \quad i_{\text{ip3}}^{\text{total}} = -14.1 \text{ dBm} \]

\[ \text{(*) } i_{\text{ip3}}^{\text{total}} = -6 \text{ dBm} \]

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\[
\frac{dp}{\gamma} = \frac{-y_0 \text{ dem} - (-y_0 \text{ dem})}{\gamma} = 10 \text{ dem}
\]

\[
\text{Pin} = V + (-y_0 \text{ dem}) = -\delta \text{ dem}
\]

\[
\text{ip}_{\text{mixer #1}} = \frac{dp}{\gamma} + \text{Pin} = 10 \text{ dem} - \delta \text{ dem} = -\delta \text{ dem}
\]

\[
A = B \Rightarrow \cos(\omega_1 - \omega_T) T + kA B \cos(\omega_2 - \omega_T) T
\]

\[
\text{Pin} + \text{Pb in} \rightarrow \omega_1 - c_T (\text{dBm})
\]

\[
\text{Pin} + \text{Pb in} \rightarrow \omega_2 - c_T (\text{dBm})
\]

\[
\text{Pout} = \text{Pin} + G_P \rightarrow \text{Pout}
\]

\[
G_P \text{ mixer #2} = 10 \text{ dB}
\]

\[
\frac{yA + B}{M} = -\frac{y_A}{y} = -y_e \text{ dem}
\]