

$$17.1K \quad V_o \sim 5V$$

$$5-5 \quad (1) \quad V_{im} = 1.414 \cdot 10V = 14.14V$$

$$V_{om} = V_{im} = 14.14V$$

$$P_o = \frac{V_{om}^2}{2R_L} = 25W$$

$$\eta = \frac{\pi V_{om}}{4V_{CC}} = 74\%$$

$$P_{VI} = \frac{1}{R_L} \left(C \frac{V_{CC} V_{om}}{\pi} - \frac{V_{om}^2}{4} \right) = 4.93W$$

$$(2) \quad V_{CE(sat)} > 2V_{CC} = 30V$$

$$I_{cm} > \frac{V_{CC}}{R_L} = 3.75A$$

$$P_{cm} > 0.2 \frac{V_{CC}^2}{2R_L} = 5.625W$$

\therefore 功率管安全。

联系方式: _____