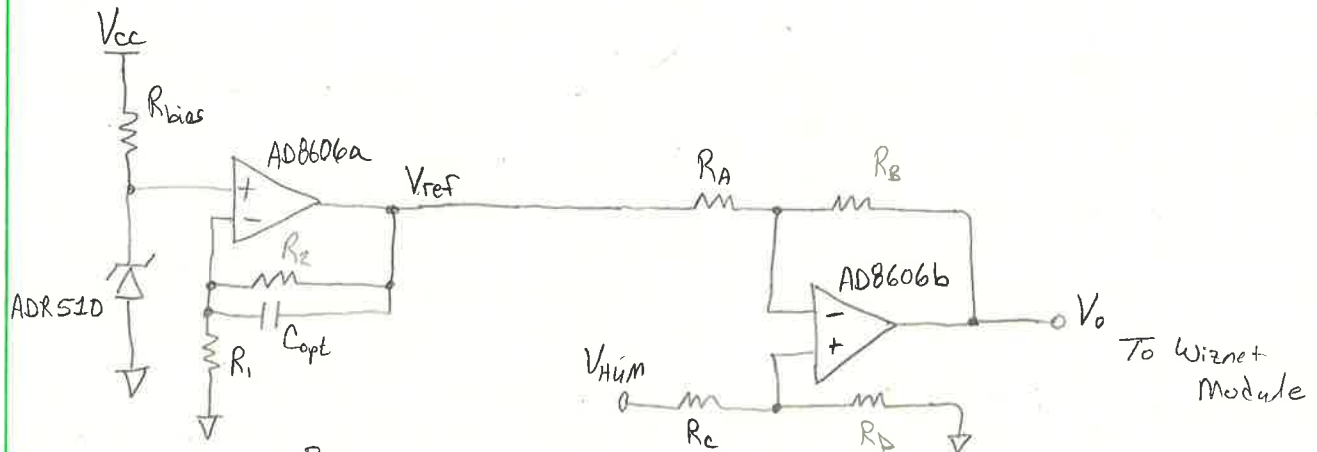


HTM 2500 Hum Scaling circuit



$$V_{ref} = 1 + \frac{R_2}{R_1}$$

$$\frac{R_D}{R_C} = \frac{R_B}{R_A} \quad V_o = \frac{R_B}{R_A} (V_{hum} - V_{REF})$$

~~AD8606~~ Dual part?

AD8606 → dual

$$R_A = R_B = R_C = R_D = 10 \text{ k}\Omega \text{ } 1\%$$

$$R_1 = \text{open}$$

$$R_2 = 0\Omega$$

$$R_{bias} = \frac{V_{cc} - V_{out}}{I_L + I_Q} = \frac{5V - 1V}{\pm 0A + 1mA} = \frac{4V}{1mA} \text{ to } \frac{4V}{10mA}$$

4k Ω 1k Ω 400 Ω