



$$P_d = (21.4330 - 16.35) * 0.48 = 2.43984 \text{ W, Minimum}$$

$$P_d = (24.2113 - 13.85) * 0.48 = 4.97342 \text{ W, Maximum}$$

LM317HVK Minimum input voltage:

$$V_{ref}: 1.2 \leq 1.25 \leq 1.3 = +4\%$$

Long term stability = +1%

Temperature stability = +1%

1% resistor tolerances for R1 and R2 = +1%²

$$\text{Total} = 4\% * 1\%^4 = 8.22\%$$

$$\text{Adj current: } 0 \leq 50E-6 \leq 100E-6 = +1330 * 100E-6 = 0.133 \text{ V}$$

Drop out: +2.5 V

$$((1.25 * (1 + (1330 / 121))) * 1.0822) + 0.133 + 2.5 = 18.86 \text{ V}$$