



$$P_{diss} = (V_+ - V_{out}) \cdot I_{out}$$

$$V_{ACin} > 0.7 \cdot (V_{out} + 2.5)$$

$$V_+ = (V_{ACin} \cdot 1.4) - 1$$

$$V_{out} = 1.25 \cdot (1 + (R1 + R3) / R2)$$

$$(R1 + R2) = (V_{out} - 1.25) \cdot 96.8$$

For values shown (R1 = 500 ohm pot, R2 = 121 ohms):
 $V_{out} = 2.50$ to $7.66V$

Filament Regulator

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TITLE: sfilereg
Document Number:
REV: