Chapter 2

19.
$$PIV = V_{\sigma} = \frac{\pi V_{AMA(\sigma \sigma)}}{2} = \frac{\pi (50 \text{ V})}{2} = 78.5 \text{ V}$$



Figure 2-4

Section 2-6 Power Supply Filters and Regulators

22.
$$V_{\text{class}} = 0.5 \text{ V}$$

 $r = \frac{V_{\text{class}}}{V_{\text{tot}}} = \frac{0.5 \text{ V}}{75 \text{ V}} = 0.00667$

23.
$$V_{\text{opt}} = \frac{V_{\text{post}}}{gR_{c}C} = \frac{30 \text{ V}}{(120 \text{ Hz})(600 \Omega)(50 \text{ pF})} = 8.33 \text{ V pp}$$

$$V_{\text{OC}} = \left(1 - \frac{1}{2 gR_{c}C}\right)V_{\text{ptot}} = \left(1 - \frac{1}{(240 \text{ Hz})6000 \Omega)(50 \text{ pF})}\right)30 \text{ V} = 25.8 \text{ V}$$

24.
$$\forall v_r = \left(\frac{V_{right}}{V_{right}}\right) 100 = \left(\frac{8.33 \text{ V}}{25.8 \text{ V}}\right) 100 = 32.3\%$$

25.
$$V_{\text{core}} = (0.01)(18 \text{ V}) = 180 \text{ m/V}$$

$$V_{\text{core}} = \left(\frac{1}{fR_{c}C}\right)V_{\text{core}}$$

$$C = \left(\frac{1}{fR_{c}V_{c}}\right)V_{\text{print}} = \left(\frac{1}{(120 \text{Hz})(1.5 \text{M2})(180 \text{ m/V})}\right) \text{PSV} = 556 \text{ MeV}$$

26.
$$V_{ec,pri} = \frac{V_{prime}}{fR_{e}C} = \frac{80 \text{ V}}{(120 \text{ Hz})(10 \text{ kHz})(10 \text{ kHz})} = 6.67 \text{ V}$$

$$V_{DC} = \left(1 - \frac{1}{2 fR_{e}C}\right)V_{prime} = \left(1 - \frac{1}{(240 \text{ Hz})(10 \text{ kHz})(10 \text{ kHz})}\right)80 \text{ V} = 76.7 \text{ V}$$

$$r = \frac{V_{cospi}}{V_{cos}} = \frac{6.67 \text{ V}}{76.7 \text{ V}} = 0.087$$

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