TPS43350 Block

Selection of Components for Type II Compensation

The value of R0 is some?
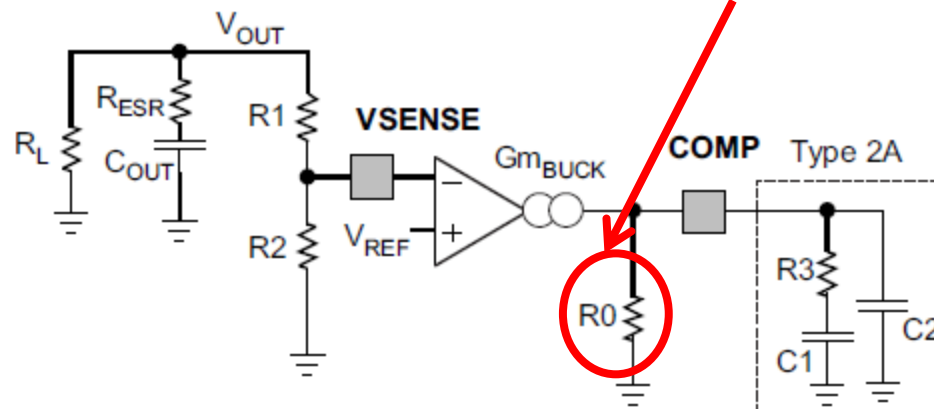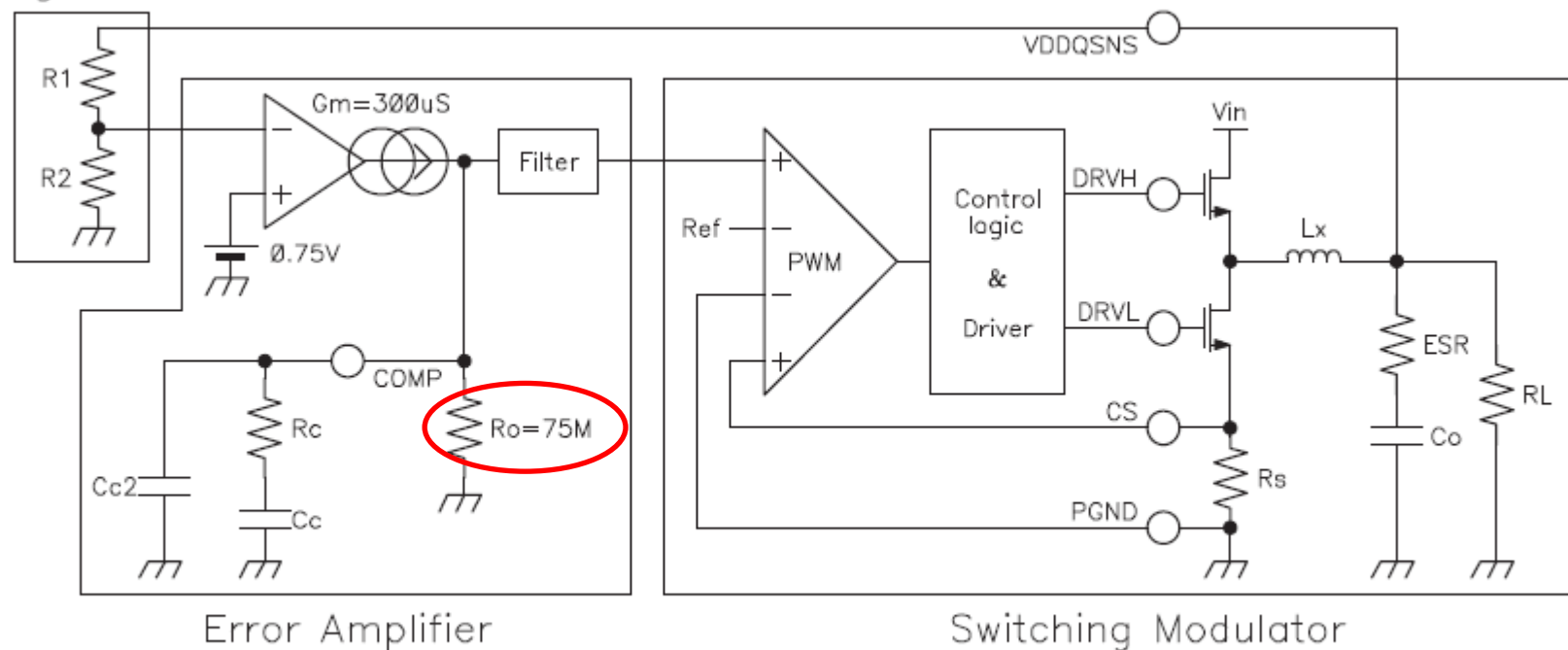

Figure 18. Buck Compensation Components

TPS51116 Block

Figure 2. Linearizing the Modulator

$$H(s) = H_1(s) \times H_2(s) \times H_3(s)$$

$$H_1(s) = \frac{R2}{(R2 + R1)}$$

$$H_2(s) = -gm \times \frac{R_O \left(1 + s \times C_C \times R_C\right)}{\left(1 + s \times C_C \times R_O\right)\left(1 + s \times C_{C2} \times R_C\right)}$$

$$H_3(s) = \frac{(1 + s \times C_O \times ESR)}{\left(1 + s \times C_O \times RL\right)} \times \frac{RL}{R_S}$$