1) 
$$Ad = 40 \%$$
  
 $\Omega_{id} = 100 = 2\Omega_{i} A CM = 0$ 

$$\Omega_1 = 50 \text{ k}\Omega$$

$$Ad = 100 = \frac{\Omega_z}{\Omega_1} = 100 \frac{\Omega_z}{50}$$

$$5,000 = R_z = 7 \Omega_z = 5 M\Omega$$

$$\Omega_{4} = \Omega_{2} = 5MN$$

$$\Omega_{3} = \Omega_{1} = 50KN$$

2) 
$$3^{1/2} LAdL300^{1/2} Dot = 100 kD  $\frac{Ry}{Rz} = 1$$$

Ad= 
$$\left(1 + \frac{2\Omega_2}{2\Omega_1}\right)\left(\frac{\Omega_4}{\Omega_3}\right)$$
 Let  $\Omega_4 = \Omega_3 = 100 \text{ k} \Omega_2$ 

Second stage

$$[1+\frac{2R_z}{Q_z+100}](1)=3$$
  $\frac{2R_z}{Q_z+100}=2$ 

$$2R_z = 2(RF+100kR)$$
  $2R_z$   $R_z = 149.5c$ 

$$(1 + \frac{2\Omega_z}{\Omega F})(1) = 300$$
  $2\Omega_z = 299 F$   $\Omega_z = 299 F$ 

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 $294 \cdot P = 2rP + 200E3$  297rP = 200E3 P = 2P + 200E3 P = 2