19

CMRR = 80 dB

BALANCEADO

$CMRR = 10^{\left(\frac{80}{20}\right)} = 10.000$

~~14.000~~ ERRADO

$R_1 = 20K\Omega + 2\% = 20,4K\Omega$

$R_2 = 50K\Omega - 2\% = 49K\Omega$

$R_3 = 20K\Omega - 2\% = 19,6K\Omega$

$R_4 = 50K\Omega + 2\% = 51K\Omega$

$$A_c = \left(\frac{R_1.R_4 - R_2.R_3}{R_1.R_3 + R_1.R_4}\right)$$

$$A_c = \frac{80_x 10^6}{1,44024 \times 10^9} = 0,0555$$

$CMRR = Ad/Ac = 43,77_{LINEAR}$

$$Av_2 = \frac{R_4}{R_1}.\left(\frac{R_1 + R_2}{R_3 + R_4}\right)$$

$$Av_1 = -\frac{R_2}{R_1} = -\frac{49K}{20,4K} = -2,402$$

$$Av_2 = \frac{51K}{20,4K}\left(\frac{20,4K + 49K}{19,6K + 51K}\right)$$

$$Ad = \frac{(-2,402 - 2,457)}{2}$$

$20,4K \setminus 13,6K + 51K /$

$Av_2 = 2,457$

$$Ad = -2,4295^{2}$$